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POPULATION INDEX

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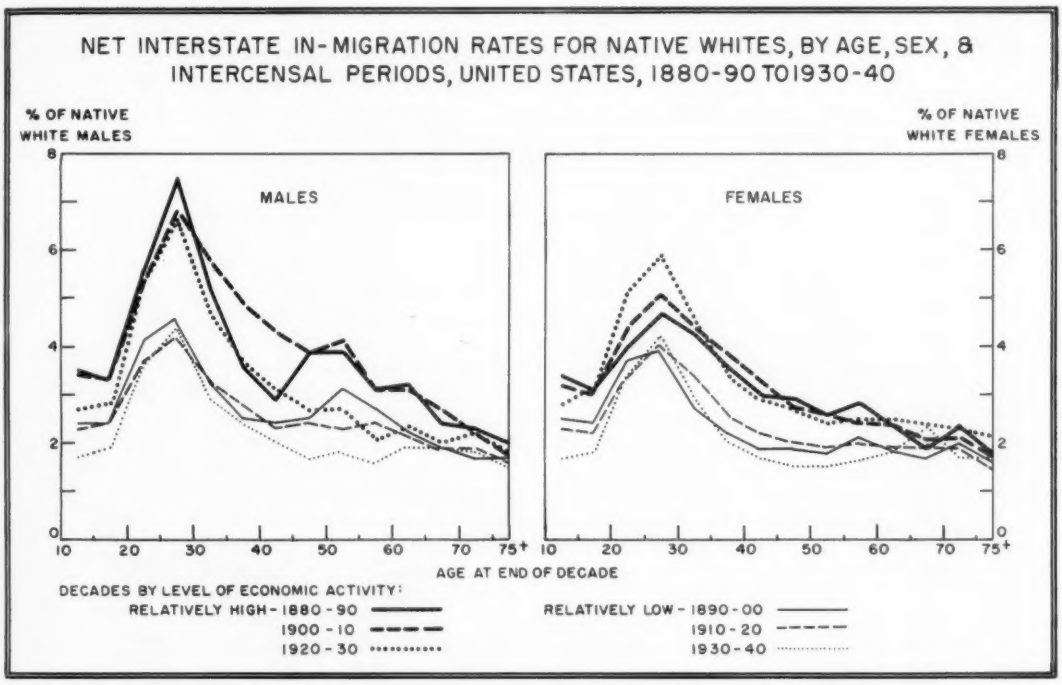

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CURRENT ITEMS

AGE AND ECONOMIC DIFFERENTIALS IN INTERSTATE MIGRATION

In August 1938, the Social Science Research Council issued a Research Memorandum on Migration Differentials [1] which systematized and evaluated what was known about the field, at that time, with special reference to internal migration. Among the population characteristics that were examined in the search for persistent and significant differences between migrants and either non-migrants or the general population were age, sex, family status, economic status, intellectual ability or performance, and physical and mental health or illness. Out of the hundreds of studies that were evaluated, only one generalization seemed to be "definitely established," namely that "there is an excess of adolescents and young adults among migrants...compared with the non-migrating or the general population." But the author of the Research Memorandum lamented that even this generalization could not be stated with precision, except for Sweden and the Netherlands, where continuous population registers yielded direct, time-oriented data on changes of residence, and where the data were cast in a form that made it possible to analyze age differentials by type of community of origin and destination, by distance spanned in the course of migration, and by secular trend and phase of business cycles. Structural, spatial, and temporal factors were demonstrably important in determining the nature and strength of age selection, especially when age was analyzed simultaneously with sex and family status. Systematic variations in migration rates with age were indeed so persistent as to necessitate control of this basic variable if proper inferences about migration differentials in terms of almost any other characteristic of the population were to be drawn — a situation analogous to that in studies of differential mortality and differential fertility.

The Research Memorandum gave American sources a very low rating, compared with the Swedish and Dutch models. The only "direct" question in the United States census that could be utilized to show migration patterns referred to birthplace, but tabulations of these data had not been cross-classified by age and therefore were of limited usefulness. "Indirect" estimates, obtained by comparing age-sex distributions at successive censuses were severely criticized, partly because so few of them were based on closed populations (those entered only by birth and left only by death) and therefore did not isolate the effects of net migration and of natural increase; partly because the ten-year interval between censuses was too long for conventional time-series analysis; partly because the censuses themselves were "fortuitously" timed in relation to phases of business cycles; and partly because of general skepticism about inferences derived from net migration compared with those based on gross migration. [2]

Although skepticism is justified, and although there are still many gaps and inadequacies in data available for analysis of migration differentials, a pessimistic appraisal of United States census sources is no longer valid. This fortunate situation is due to three major innovations by the Census Bureau. The first was the introduction in 1940 of a question in the census schedule asking where each person enumerated on April 1, of that year, lived on April 1, 1935; the repetition of this question, relating to residence as of April 1, 1949, in the 1950 census; and the present plan for continuing a similar question in the 1960 census. The second was the inauguration of national sample surveys, known as

Current Population Surveys, and the introduction in these surveys of a migration question similar to that of the decennial censuses of 1940 and 1950. Since 1948, the migration question in CPS has been asked every year in April or March, with a one-year reference date, thus providing a consistent series which now covers ten years. The third was the tabulation of 1950 state-of-birth data cross-classified by age for the first time since this series was initiated a century ago. If continued in subsequent censuses, the age-sex-color tabulation by birthplace and residence will remove much of the vagueness inherent in "birth-residence" measures of migration and provide the basis for meaningful origin-destination analyses of differentials.

Concomitantly with these remarkable advances in census procedure, a number of investigators (including the author of the 1938 Research Memorandum) took a new look at the discredited "indirect" measures and concluded that the only hope of obtaining perspective on the role of migration during this country's economic development was to exploit historical census data to the full, with due regard to their limitations. The staff of the University of Pennsylvania Study of Population Redistribution and Economic Growth, therefore, prepared and published estimates of net intercensal migration, by broad age groups, sex, nativity, and color or race for each state from 1870-1880 to 1940-1950. [3]

This paper presents some unpublished summaries of the University of Pennsylvania data together with data obtained from the census of 1940 and from various Current Population Surveys [4] to show age differentials by sex in interstate migration. It is limited to national summaries, and gives no regional detail. The historical series is limited to native whites, although estimates are also available for Negroes and for foreign-born whites. Correspondingly the census series presented here [5] shows no detail by color or by origin and destination, which are available, cross-classified by age, in the 1940 census; none on the distance variable for which data are available in terms of contiguous and non-contiguous states both in the 1940 and 1950 censuses and for the first few years of CPS; none on intrastate migrants and intracounty movers for which much detail has been published in the censuses and in CPS. The age data for the historical series are presented in five-year groupings, those from the census and CPS series in the smallest groupings common to both.

Intercensal Periods, 1870-1950

The estimates of net migration of native whites by intercensal periods were prepared by Everett S. Lee, who has set forth the methodological premises and described the procedures in detail. [6] These estimates were derived from native white age-sex distributions in successive decennial censuses from 1870 to 1950. Inasmuch as native whites represent populations with a high degree of closure, "census survival ratios" are applicable. These were computed by five-year age groups for each sex from national data, and applied to age-sex distributions of native whites for each state to obtain expected survivors at the end of each intercensal period. Subtraction of expected survivors from enumerated populations yielded statewise estimates of net migration for populations aged 10 years and older as of the end of each period. Application of this method assumes constancy, from state to state, in enumeration errors and biases and in age-specific mortality rates. Except for very recent periods these assumptions are untestable; and where testable are not always tenable. The method does, however, have a distinct advantage over appli-

Table 1

Net Interstate In-Migration of Native Whites 10 Years of Age and Older as Per Cent of Average Population at Beginning and End of Intercensal Period, by Sex and Age, United States, 1870-1950

Age at end of period	Intercensal Period and Sex							
	1870-80	1880-90	1890-00	1900-10	1910-20	1920-30	1930-40	1940-50
	Males							
10-14	4.2	3.5	2.4	3.4	2.3	2.7	1.7	3.4
15-19	3.9	3.3	2.4	3.3	2.4	2.8	1.9	4.5
20-24	6.3	5.6	4.1	5.4	3.7	5.4	3.6	5.8
25-29	8.1	7.5	4.6	6.8	4.2	6.6	4.4	6.1
30-34	6.2	5.2	3.2	5.8	3.3	4.7	2.9	5.1
35-39	5.0	3.6	2.5	4.9	2.8	3.7	2.4	4.1
40-44	4.4	2.9	2.4	4.3	2.3	3.1	2.0	3.4
45-49	4.6	3.9	2.5	3.9	2.4	2.7	1.7	2.9
50-54	4.5	3.9	3.1	4.1	2.3	2.7	1.8	2.6
55-59	3.6	3.1	2.7	3.1	2.4	2.1	1.6	2.3
60-64	3.6	3.2	2.2	3.1	2.1	2.3	1.9	2.2
65-69	2.8	2.4	1.9	2.7	1.9	2.0	1.9	2.3
70-74	2.7	2.3	1.7	2.2	1.9	2.2	1.8	2.1
75 +	1.4	2.0	1.7	1.8	1.6	2.0	1.5	1.4
Total, 10+	5.0	4.3	2.9	4.4	2.8	3.6	2.4	3.9
	Females							
10-14	4.0	3.4	2.5	3.2	2.3	2.8	1.7	3.4
15-19	3.4	3.1	2.4	3.0	2.2	3.1	1.8	3.4
20-24	4.0	4.0	3.7	4.4	3.4	5.1	3.4	5.3
25-29	4.8	4.7	3.9	5.1	4.0	5.9	4.2	6.7
30-34	4.7	4.3	2.7	4.4	3.4	4.6	2.9	5.1
35-39	4.0	3.6	2.2	3.9	2.6	3.4	2.0	4.1
40-44	3.4	3.0	1.9	3.3	2.2	2.9	1.7	3.3
45-49	3.2	2.9	1.9	2.8	2.0	2.7	1.5	2.7
50-54	2.9	2.6	1.8	2.6	1.9	2.4	1.5	2.4
55-59	2.9	2.8	2.1	2.4	2.0	2.5	1.6	2.3
60-64	2.4	2.4	1.8	2.4	1.9	2.5	1.8	2.5
65-59	2.1	1.9	1.7	2.1	1.9	2.4	2.3	2.7
70-74	2.4	2.4	2.0	2.1	1.9	2.3	1.7	2.1
75 +	1.4	1.8	1.6	1.7	1.5	2.1	1.7	1.5
Total, 10+	3.8	3.5	2.6	3.5	2.6	3.5	2.3	3.8

Note: Based on unpublished tables prepared under the supervision of Everett S. Lee. The migration estimates were obtained by applying age-sex-color specific census survival ratios to corresponding state populations. The "nets" shown here represent the sum of statewise gains.

Table 2

Rates of Net Interstate In-Migration of Native Whites by Age as Relatives of Total Rates for Each Sex and Each Intercensal Period, United States, 1870-1950

Age at end of period	Intercensal Period and Sex							
	1870-80	1880-90	1890-00	1900-10	1910-20	1920-30	1930-40	1940-50
	Males							
10-14	84	81	83	77	82	75	71	87
15-19	78	77	83	75	86	78	79	115
20-24	126	130	141	123	132	150	150	149
25-29	162	174	159	155	150	183	183	156
30-34	124	121	110	132	118	131	121	131
35-39	100	84	86	111	100	103	100	105
40-44	88	67	83	98	82	86	83	87
45-49	92	91	86	89	86	75	71	74
50-54	90	91	107	93	82	75	75	67
55-59	72	72	93	70	86	58	67	59
60-64	72	74	76	70	75	64	79	56
65-69	56	56	66	61	68	56	79	59
70-74	54	53	59	50	68	61	75	54
75 +	28	47	59	41	57	56	62	36
Total, 10+	100	100	100	100	100	100	100	100
	Females							
10-14	105	97	96	91	88	80	74	89
15-19	89	89	92	86	85	89	78	89
20-24	105	114	142	126	131	146	148	139
25-29	126	134	150	146	154	169	183	176
30-34	124	123	104	126	131	131	126	134
35-39	105	103	85	111	100	97	87	108
40-44	89	86	73	94	85	83	74	87
45-49	84	83	73	80	77	77	65	71
50-54	76	74	69	74	73	69	65	63
55-59	76	80	81	69	77	71	70	61
60-64	63	69	69	69	73	71	78	66
65-69	55	54	65	60	73	69	100	71
70-74	63	69	77	60	73	66	74	55
75 +	37	51	62	49	58	60	74	39
Total, 10+	100	100	100	100	100	100	100	100

Source: Computed from Table 1.

cation of life-table survival ratios, by partially correcting for systematic errors in underenumeration and age misreporting.

The national series for each decade, shown in Table 1, were obtained from Lee's estimates by summing the positive values by states for each age-sex group. Expressing the resulting estimates of "net in-migration" as percentages of corresponding averages of population at the beginning and end of each decade gives an indirect measure of age differentials.

Examination of the age-specific rates in Table 1 shows (1) wide fluctuations by decades for both sexes; (2) generally higher rates for males than for females; and (3) a consistent age-differential pattern for each sex within each decade, with rates rising to pronounced peaks at ages 25-29 and thereafter declining fairly regularly, to minima at the oldest ages.

Table 2 presents the age-specific rates for each sex and decade as relatives of the corresponding rates for the total population aged 10 years and older. Three quinquennial age groups — covering the range 20-34 years as of the end of each decade — were always above average; the next oldest group, 35-39 years, fluctuated narrowly around the average; and younger and older groups were, almost without exception, well below the average. Over the whole 80-year span, the rates for the peak ages, 25-29 years, were 65 per cent above average for males and 55 per cent above average for females. For ages contiguous to the peak, the corresponding relative positive deviations from the average were 38 per cent for males and 31 per cent for females at ages 20-24 years; and 24 per cent for males, 25 per cent for females at ages 30-34 years.

Thus, the net gains of interstate migrants were highly concentrated in a very narrow age range for both sexes, the concentration being slightly greater for males than for females in general, but there was an observable tendency for female selectivity to equal or exceed that of males in later periods.

The question arises as to whether the variations among decades in the level of net interstate migration and the variations by decades in age concentrations are in any way related to variations in economic activity. It is well established that immigration of the foreign born to the United States has, historically, been positively correlated with business cycles [7]; and a recent study shows similar relationships between immigration and longer swings in economic activity. [8] Because of the paucity of American data on internal migration, no systematic analyses have been made of its possible response to variations in economic opportunity, although analyses of some European data show positive correlations between business cycles and internal migration from agricultural into industrialized and urban areas. [9] To utilize the University of Pennsylvania estimates for this purpose required classification of decades by relative levels of economic activity. This was done by fitting six successive thirty-one year linear trends to annual data on gross national product per capita, in constant prices [10], beginning with the first year of each decade, cumulating the absolute deviations from each trend over each decade, and expressing their algebraic sums as percentages of corresponding cumulative trend values. As shown in Table 3, these calculations yielded three separate values for each of the four middle decades; two each for contiguous decades; and one each for the initial and terminal decades. Where there are multiple observations, the signs are in all cases consistent, and it therefore seems reasonable to classify

Table 3

Gross National Product per Capita, in 1929 Prices: Cumulative Algebraic Deviations over 10-Year Intercensal Periods as Percentages of Overlapping Trends, United States, 1870-80 to 1940-50

	Intercensal Period							
	1870-1880	1880-1890	1890-1900	1900-1910	1910-1920	1920-1930	1930-1940	1940-1950
Trend Period	Per Cent							
1870-1900	-4.1	+5.7	-2.3					
1880-1910		+2.5	-5.1	+2.5				
1890-1920			-2.4	+3.7	-1.4			
1900-1930				+2.6	-3.2	+1.1		
1910-1940					-2.6	+8.9	-7.2	
1920-1950						+10.8	-15.5	+3.9
Relative economic position of intercensal period	(Low)	High	Low	High	Low	High	Low	(High)

Note: The annual data underlying these computations were obtained in 1954 through the courtesy of the National Bureau of Economic Research, Inc. Linear trends were fitted, by the least squares method, to overlapping 31-year periods, beginning with 1870-1900 and ending with 1920-1950. Absolute deviations from these trends were summed algebraically over each 10-year intercensal period and expressed as percentages of cumulative trend values for the same period.

decades from 1880 to 1940 in the crude dichotomy of "relatively high" versus "relatively low" economic activity.

Comparison of Tables 1 and 3 indicates the extent of covariance of intercensal swings in net interstate migration and relative levels of economic activity. In each of 28 possible age-sex comparisons, the rates in the high activity decade, 1880-1890, exceed those in the low activity decade, 1890-1900; and the same is true for 56 possible comparisons of each of the high activity decades, 1900-1910 and 1920-1930, with both the preceding and the following low activity periods. For the terminal decade, 1940-1950, the expected pattern holds for 26 out of 28 possible age-sex comparisons with 1930-1940; but when the initial decade, 1870-1880, is compared with 1880-1890, the pattern is quite out of line with expectation, most rates being higher in the "low" than in the "high" activity period. Except for the initial decade in the series, the generalization that there is a strong positive correlation between swings in economic activity and in net interstate migration, holding constant both age and sex,

seems warranted. The break in the pattern for 1870-1880 may reflect a real difference in the type of migration during this period, dominated as it was by the opening up of new territories. Or it may reflect the gross underenumeration in the South at the first census following the Civil War, and the ineffectiveness of census survival ratios in compensating for discrepancies of this order. Or it may, of course, indicate faulty economic placement of the 1870-1880 decade, although evidence from business annals and economic time series lends no weight to this suggestion.

Because of various uncertainties about the initial and terminal decades, the chart on the cover page is drawn from data for only six intercensal periods, namely 1880-1890 to 1930-1940. It shows clearly the marked differences between age-sex specific interstate net migration rates of the three high and the three low economic activity periods. The differences are especially noteworthy for males in the young-middle-aged range, but are clear-cut also for females. The high-low patterns are obscured only slightly by divergent trends for the peak ages: a slight tendency for male rates to decline over time, and a more clear-cut tendency for female rates to rise sharply in successive prosperous decades.

Differences in the levels of net migration rates in periods of high and low economic activity have been demonstrated. It should, therefore, follow that the age and sex classes most likely to respond to variations in economic activity, that is, young people, and especially young males, seeking economic betterment, would show a correspondingly greater intensity of migration during high than during low activity periods. In general, this is true. For males in the age group 30-34 years (as of the end of the intercensal period) the rates, relative to the average, are greater in decades of high, than in contiguous decades of low, economic activity: 28 per cent above the average in high, versus 16 per cent in low, activity decades. For females, the differential is less consistent and less marked, the rates being 27 per cent above average for high, and 20 per cent above average for low, activity decades. For both sexes, rates for all ages over 55 years are usually well above average in decades of low, and well below average in those of high, economic activity. Tenuous as these findings are, they suggest a positive or "economic" selection of young adults, and a negative or "noneconomic" selection of the middle aged and older.

Shorter Periods, 1935-1957

The intercensal period or decade is an awkward interval for determining the extent and nature of interrelations between migration and economic change: too long to show cyclical patterns and too rigid to delineate longer swings. Moreover, the technique of measuring net migration by census survival ratios is admittedly a makeshift, made necessary because no better estimates can be made with existing historical data.

Recent migration trends and differentials can be analyzed much more satisfactorily with annual data, provided these extend over a fairly long period. Even though the CPS data cover only 10 years, age-sex series for interstate migration, derived from this source, are shown in Table 4, where data are also given for a five-year interval, from the 1940 census, and for a seven-year interval from an earlier CPS survey. The shorter the interval, the nearer the approximation to the time at which the migrations actually took place. It is not surprising therefore to find more pronounced age differentials in the annual series than for the periods 1935-1940 and 1940-1947. For the longer intervals, the modal age for males falls somewhere within the class 25-34 years [11]; for the an-

Table 4

Interstate Migrants 14 Years of Age and Older as Per Cent of Population by Age, Sex, and Migration Interval, United States 1935-1957

Sex and age	Migration Interval											
	Five-year	Seven-year	One-year									
	1935-1940	1940-1947	1947-1948	1948-1949	1949-1950	1950-1951	1951-1952	1952-1953	1953-1954	1954-1955	1955-1956	1956-1957
Males												
14-17	3.8	7.2	1.8	2.2	1.8	2.0	2.1	1.6	2.1	2.5	1.5	1.8
18-19	5.6	8.5	6.3	5.2	3.7	4.2	5.2	3.3	3.4	3.2	3.6	3.6
20-24	8.0	12.8	6.2	6.0	6.0	6.6	8.3	13.0	10.4	9.6	11.7	8.8
25-34	8.8	16.5	5.3	5.0	4.6	6.3	5.9	6.1	5.5	5.3	5.1	5.1
35-44	6.3	12.0	3.4	3.2	2.2	3.2	3.1	3.2	2.7	3.2	2.6	2.8
45-64	3.9	6.1	1.3	1.6	1.6	2.0	2.1	1.6	1.7	1.1	1.5	1.4
65 +	2.4	5.0	1.7	1.7	0.7	1.0	0.5	0.8	1.1	1.1	1.0	0.9
Total, 14+	5.8	10.2	3.3	3.3	2.8	3.5	3.5	3.7	3.3	3.2	3.2	3.0
Females												
14-17	3.9	8.3	1.9	1.7	2.5	2.3	2.5	2.4	2.1	2.2	2.9	2.9
18-19	5.6	10.4	3.9	4.8	4.8	7.1	6.0	6.7	6.7	5.4	5.8	7.8
20-24	8.0	16.0	6.5	5.7	5.3	6.8	7.8	8.1	8.2	8.0	9.1	7.8
25-34	7.9	15.9	4.3	4.1	3.9	5.3	5.4	5.2	4.6	4.2	4.0	4.2
35-44	5.2	10.1	2.4	2.3	1.9	2.5	2.2	2.5	2.4	2.3	2.4	2.2
45-64	3.5	5.4	1.7	1.3	1.2	1.5	1.1	1.6	1.6	1.6	1.1	1.4
65 +	2.6	4.8	1.6	1.5	1.0	0.8	1.1	1.2	1.6	1.0	1.1	1.0
Total, 14+	5.4	10.1	3.0	2.7	2.6	3.2	3.1	3.3	3.2	3.0	2.9	3.0

Notes: The reference dates are April of each year except for 1949-50 and 1955-56 which refer to March. Data for 1935 to 1940 exclude persons for whom migration status was not reported.

Sources: The basic data for 1935 to 1940 are from: Sixteenth Census of the United States, 1940. Population. Internal Migration, 1935 to 1940. Age of Migrants. Washington, 1946. Table 8. For other series from: U. S. Bureau of the Census. Current Population Reports, Series P-20. Population Characteristics. No. 14 (April 15, 1948); No. 22 (Jan. 28, 1949); No. 28 (March 17, 1950); No. 36 (Dec. 9, 1951); No. 39 (July 14, 1952); No. 47 (Sept. 27, 1953); No. 49 (Dec. 1, 1953); No. 57 (April 25, 1955); No. 61 (Oct. 28, 1955); No. 73 (March 12, 1957); No. 82 (July 21, 1958).

Census. Current Population Reports, Series P-20. Population Characteristics. No. 14 (April 15, 1948); No. 22 (Jan. 28, 1949); No. 28 (March 17, 1950); No. 36 (Dec. 9, 1951); No. 39 (July 14, 1952); No. 47 (Sept. 27, 1953); No. 49 (Dec. 1, 1953); No. 57 (April 25, 1955); No. 61 (Oct. 28, 1955); No. 73 (March 12, 1957); No. 82 (July 21, 1958).

Table 5

Rates of Interstate Migration by Age as Relatives of Total Rates for Each Sex and Migration Interval, United States, 1935-1957

	Migration Interval											
	Five-year	Seven-year	One-year									
Sex and age	1935-1940	1940-1947	1947-1948	1948-1949	1949-1950	1950-1951	1951-1952	1952-1953	1953-1954	1954-1955	1955-1956	1956-1957
Males												
14-17	66	71	55	67	64	57	60	43	64	78	47	60
18-19	97	83	191	158	132	120	149	89	103	100	113	120
20-24	138	125	188	182	214	189	237	351	315	300	366	293
25-34	152	162	161	152	164	180	169	165	167	166	159	170
35-44	109	118	103	97	79	91	89	86	82	100	81	93
45-64	67	60	39	48	57	57	60	43	52	34	47	47
65 +	41	49	52	52	25	29	14	22	33	34	31	30
Total, 14+	100	100	100	100	100	100	100	100	100	100	100	100
Females												
14-17	72	82	63	63	96	72	81	73	66	73	100	97
18-19	104	103	130	178	185	222	194	203	209	180	200	260
20-24	148	158	217	211	204	213	252	245	256	267	314	260
25-34	146	157	143	152	150	166	174	158	144	140	138	140
35-44	96	100	80	85	73	78	71	76	75	77	83	73
45-64	65	53	57	48	46	47	35	48	50	53	38	47
65 +	48	48	53	56	38	25	35	36	50	33	38	33
Total, 14+	100	100	100	100	100	100	100	100	100	100	100	100

Source: Computed from Table 4.

nual series, within the class 20-24 years. In all series, female migrants tend to be more concentrated at somewhat younger ages than are males.

The intensity of age selection is shown more clearly in terms of the relatives in Table 5. For the longer intervals, rates for the peak ages vary from about 50-60 per cent above average for both sexes, whereas for the annual series rates for the peak ages range from only slightly less than 100 per cent to almost 300 per cent above the averages of rates for total populations aged 14 years and older.

The intriguing possibilities of time-series analysis, with annual data, can only be suggested with the present series, both because ten years

Table 6

Business Cycle Expansions and Contractions and Per Cent Unemployed, United States, 1947-1958

Year*	Unemployed as % of civilian labor force	Duration, in months, of		Date of	
		Expansion	Contraction	Peak	Trough
					(Oct. 1945)
1947-48	3.9	12			
1948-49	4.0	8	4	Nov. 1948	
1949-50	6.3	6	6		Oct. 1949
1950-51	4.5	12			
1951-52	3.2	12			
1952-53	3.0	12			
1953-54	3.6	4	8	July 1953	
1954-55	5.5	7	5		Aug. 1954
1955-56	4.3	12			
1956-57	4.2	12			
				(July 1957)	

* April to April, except for 1949-50 and 1955-56, which run from March to March to conform with the migration series in Table 3.

Sources: Duration and timing: adapted from: Geoffrey H. Moore. "Measuring recessions." Journal of the American Statistical Association 53 (282):260. June, 1958.

Unemployment: averages for April to April or March to March years of seasonally adjusted monthly rates, from: Bureau of the Census. Current Population Reports. Labor Force. Annual Report on the Labor Force, 1957, p. 11; and Combined Employment and Unemployment Release: July 1958, p. 11.

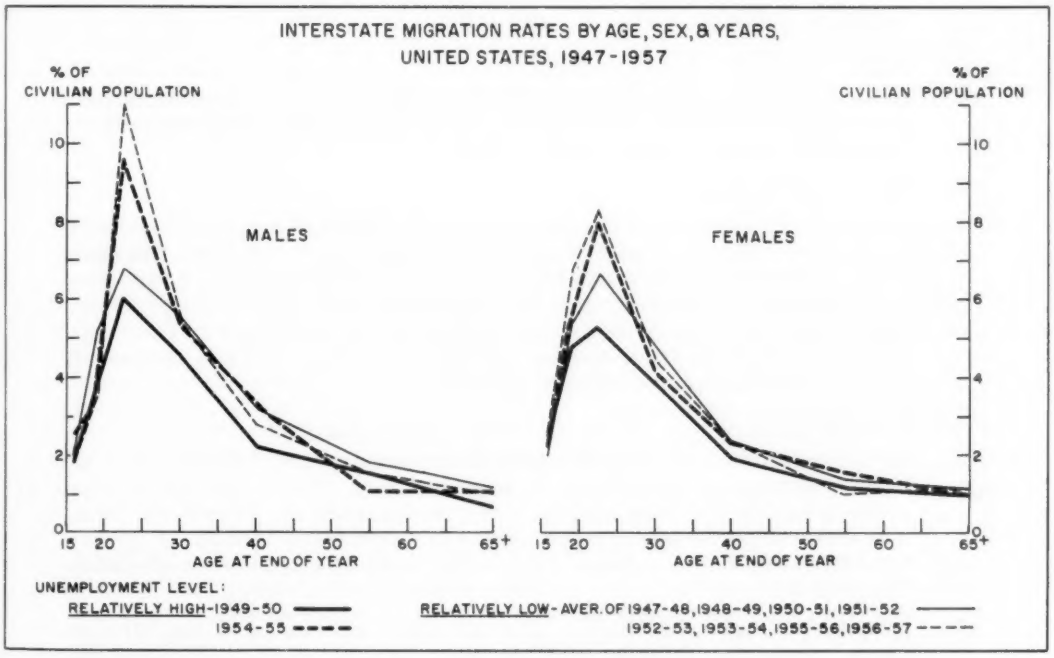
Table 7

Interstate Migrants 14 Years of Age and Older as Per Cent of Population by Sex and Age and Per Cent Unemployed, United States, 1949-1950, 1954-1955, and Averages of Contiguous and Proximate Years

Age	Males				Females			
	1949-1950	Contig. & prox. years*	1954-1955	Contig. & prox. years†	1949-1950	Contig. & prox. years*	1954-1955	Contig. & prox. years†
14-17	1.8	2.0	2.5	1.8	2.5	2.1	2.2	2.6
18-19	3.7	5.2	3.2	3.5	4.8	5.4	5.4	6.8
20-24	6.0	6.8	9.6	11.0	5.3	6.7	8.0	8.3
25-34	4.6	5.6	5.3	5.4	3.9	4.8	4.2	4.5
35-44	2.2	3.2	3.2	2.8	1.9	2.4	2.3	2.4
45-64	1.6	1.8	1.1	1.6	1.2	1.4	1.6	1.0
65 +	0.7	1.2	1.1	1.0	1.0	1.2	1.0	1.2
Total, 14 +	2.8	3.4	3.2	3.3	2.6	3.0	3.0	3.1
Males & Females (% unemployed)	6.3	3.9	5.5	3.8	6.3	3.9	5.5	3.8

Notes: * Average of percentages for 1947-48, 1948-49, 1950-51 and 1951-52.
† Average of percentages for 1952-53, 1953-54, 1955-56 and 1956-57.

Sources: Tables 4 and 6.



is too short a period to permit the isolation of cycles from trends and long swings, and because this particular ten years was subject to the disturbing influences of mobilization and demobilization. Their economic character can, however, be indicated, as in Table 6, by using business annals to show the duration of periods of contraction and expansion, and the timing of peaks or troughs; and the unemployment rate for relative economic levels. During the ten years covered by CPS, there were less than two complete business cycles, measured either from peak to peak or trough to trough, but two years, namely 1949-1950 and 1954-1955, stand out as clearly below the economic level of the other eight. The period was, therefore, split into halves, as shown in Table 7, and age-sex specific migration rates were averaged for the four relatively prosperous years, contiguous and proximate to each of the two relatively depressed years. These data are shown graphically in Chart 1. Within each subperiod, the intensity of migration was somewhat accentuated in the prosperous years; and there was a corresponding tendency toward higher peak-age selectivity in the prosperous than in the depressed years. The differences are, however, neither great, in the average scale, nor uniformly consistent for individual years. When data become available for a few more years under more normal conditions, firmer conclusions can be drawn about the variations in the level of interstate migration and its age selectivity in relation to business cycles and to longer swings in economic activity.

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FOOTNOTES

1. Thomas, Dorothy Swaine. Research memorandum on migration differentials. Social Science Research Council, Bulletin 43. New York, 1938. xii, 423 pp.

2. Ibid., pp. 1-54, 160-167, passim.

3. Lee, Everett S., et al. Population redistribution and economic growth, United States, 1870-1950. Philadelphia, The American Philosophical Society, 1957. xix, 759 pp.

4. See notes to Table 4.

5. This paper does not include data from the 1950 census, but, for comparability, utilizes the CPS survey for that year. The 1950 census data, along with those from other census and CPS sources, are being analyzed in detail by Henry S. Shryock, Jr., in a monograph on population mobility in the United States, to be published in the Census Monograph Series, sponsored by the Social Science Research Council and the Bureau of the Census.

6. Lee, op. cit., pp. 9-106.

7. See Jerome, Harry. Migration and business cycles. New York, National Bureau of Economic Research, Inc., 1926. 256 pp. Other studies bearing on this subject are summarized in: United Nations. The determinants and consequences of population trends. Population Studies, No. 17. New York, 1953. xii, 404 pp. See especially Chapter VI.

8. Kuznets, Simon, and Rubin, Ernest. Immigration and the foreign born. National Bureau of Economic Research, Inc., Occasional Paper 46. New York, 1954. xii, 107 pp.

9. See Thomas, Dorothy Swaine. Social and economic aspects of Swedish population movements, 1750-1933. New York, The Macmillan Company, 1941. xxiii, 487 pp. See especially Chapter 8. See also United Nations, op cit., pp. 123-126.

10. In a paper presented at the World Population Conference, the present writer used this same gross national product series (NBER Variant I, as of 1954) without taking cumulative deviations over the decade into account. Because of the disturbing influence of the cyclical positions of 1870 and 1880, the conclusion that "migration lagged behind the movement in gross national product during the late 19th century" is probably erroneous. (Thomas, Dorothy Swaine. "Some aspects of a study of population redistribution and economic growth in the United States, 1870-1950." Pp. 667-713 in: United Nations. Proceedings of the World Population Conference, 1954. Rome, 31 August-10 September 1954. Papers: Volume II.)

11. Use of this broad age group was necessitated to obtain comparability over time. Five-year age groups available for 1935-1940, however, show that the modal age group for males for this five-year migration interval was 25-29 years.

SOCIAL SCIENCE RESEARCH COUNCIL TRAVEL GRANTS International Conference Travel Grants equivalent to round-trip, tourist-class air plane fare are offered to social scientists residing in the United States for attendance at meetings outside North America designated in advance by the Council. The meetings include the Conference of the International Union for the Scientific Study of Population, Vienna, Aug. 28-Sept. 4, 1959 (5), and the Congress of the International Sociological Association, Milan, Sept. 8-15, 1959 (15). The approximate number of grants offered for each meeting is shown in parenthesis. In applying, persons who intend to participate in both conferences should state this fact, as there may be an excess of applications for the one and a deficiency for the other. Application forms will be supplied on request to the Social Science Research Council, 230 Park Avenue, New York 17, N. Y. The applications are due December 1, 1958, and announcement of the grants will be made by March 1, 1959.

NATIONAL SCIENCE FOUNDATION TRAVEL GRANTS The National Science Foundation will award individual grants to defray partial travel expenses for a limited number of American scientists participating in the Conference of the International Union for the Scientific Study of Population, Vienna, 1959, and in the International Sociological Association Congress, Milan, 1959. An attempt will be made to have the grants approximate round-trip air tourist fare between the scientist's home institution and the location of the meeting. Application blanks may be obtained from the National Science Foundation, Washington 25, D. C. Completed application forms must be submitted by February 1, 1959.

AUSTRALIAN NATIONAL UNIVERSITY SCHOLARSHIPS Applications are invited from post-graduate students with research experience for scholarships in Demography. The scholarships are tenable for an initial period of two years and may be extended for a third year. The academic year runs from March to December. Scholars will be expected to enroll

for a Ph.D. degree. The present value of a scholarship is eight hundred thirty-three Australian pounds per annum. Married scholars with dependent children may be granted additional allowances, and the University will make a contribution towards a scholar's fares to Canberra. Application forms and further information may be obtained from: The Registrar, Box 4, G. P. O., Canberra, A. C. T., or from the following: The Australian Embassy, 1700 Massachusetts Ave, Washington, D. C.; The Australian Consulate-General, 636 Fifth Ave., New York 20, N. Y.; The Australian Consulate-General, 206 Sansome St., San Francisco 4, Calif.; The Office of the Australian High Commissioner, 100 Spark St., Ottawa, Canada.

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This bibliography is compiled principally from publications available to the editors or cited in the literature. Selection is on the basis of intrinsic merit, current interest, and paucity or richness of the literature for the various areas and problems. Coverage is less complete in peripheral fields, selection less rigid in underdeveloped areas. The major resources utilized in addition to those of the Office of Population Research are the current acquisitions of the Princeton University Library, the New York Public Library, the United Nations Headquarters Library, and the Library of the New York Academy of Medicine.

The editors acknowledge the generous cooperation of the staff of the New York Public Library, and especially that of the Economics Division, in making the numerous excellent facilities of the Library available to them. The coverage of official publications of national governments is facilitated by accession lists and occasional other aid from several government agencies.

The basis of the subject classification in this bibliography was described in the January 1955 issue of Population Index, pages 21 to 27. Regularly recurring compilations of official statistics that have been listed in the bibliographies of the United Nations Demographic Yearbook are not normally covered here. English translations of titles and abstracts have been made by the editors. Titles contributed by individuals other than the editors are acknowledged by placing the name of the contributor in brackets at the end of the entry. If a translation or annotation is taken from a secondary source, that source is also cited in brackets. The titles of items not seen by the editors are marked with the symbol °.

A list of the sources used in the preparation of this bibliography will appear with the cumulative index for Volume 24. The following abbreviations are used for the bibliographical sources quoted in the annotations of this issue:

A.A. - African Abstracts.
A.H.R. - American Historical Review.
A.J.O.G. - American Journal of Obstetrics and Gynecology.
B.A. - Biological Abstracts.
B.A.D. - Bulletin Analytique de Documentation Politique, Economique et Sociale Contemporaine. (France. Fondation National des Sciences Politiques.)
B.C.L. - Library Notes. (U. S. Bureau of the Census.)
C.G.P.C. - Canadian Government Publications Catalogue.
C.N.L. - Canadiana. (Canada. National Library.)
D.E. - Documentation Economique.
E.E.A.I. - East European Accessions Index. (U. S. Library of Congress.)
E.H.R. - Economic History Review.
I.A.S.I. - Estadística. (Inter American Statistical Institute.)
I.B.S. - International Bibliography of Sociology. (U.N.E.S.C.O.)
I.N.S.E.E. - Liste des Ouvrages Entrés. (France. Institut National de la Statistique et des Etudes Economique. Bibliothèque.)
J.A.M.A. - Journal of the American Medical Association.
L.C.C.D. - Library of Congress. Card Division. [Weekly Proofsheets.]
L.C.I.B. - Library of Congress. Information Bulletin.
L.R.S. - La Ricerca Scientifica. Rome.
P.A. - Psychological Abstracts.
P.A.I.S. - Public Affairs Information Service. Bulletin.
P.R.T. - Population: Revue Trimestrielle.
S.A.A.L. - South Asia Accessions List. (U. S. Library of Congress.)
T.A. - Tropical Abstracts.
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The further development of the bibliography as a contribution to international demographic research requires the cooperation of scholars throughout the world. The editors welcome exchange relationships with institutions, reprints of research contributions, and citations to fugitive studies or those in non-Western languages.

A. GENERAL POPULATION STUDIES AND THEORY

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Discussion of problems suggested by the work by Roger Mols cited in 23:Title 1016, that concern estimating the population of towns, countryside, and total population for France from the fourteenth to the nineteenth centuries.

4038 Bowen, E. G., Editor.
Wales: a physical, historical and regional geography. London, Methuen, 1957. 528 pp.
Part II, Historical geography, contains

chapters:

Bowen, E. G. Race and culture. [Summarizes data on early ethnic distributions.]

Thomas, J. Gareth. Settlement patterns — rural and urban.

Carter, Harold, and Thomas, J. Gareth. Population and language.

4039 Butterfield, Roy L.
On the American migrations. New York History 38(4):368-386. Oct., 1957.°

4040 Connell, K. H.
Peasant marriage in Ireland after the Great Famine. Past and Present, No. 12, Nov., 1957. Pp. 176-191. [Exposition of the thesis that consolidation of holdings (accompanying the change from potato to pastoral farming), emigration, and a rising standard of living brought a marked increase in age at marriage in the decades after 1846. "Substantially a paper read before the Statistical and Social Inquiry Society of Ireland, December 1955." See below.]

Marriage in Ireland after the famine: the diffusion of the match. Journal of the Statistical and Social Inquiry Society of Ireland, Vol. 19 (1955/56), 109th Session. Pp. 82-103.°

4041 Coquin, F.-X.
Le peuplement paysan de la Sibérie (1890-1939). Revue d'Histoire Moderne et Contemporaine (Paris) 4(1):64-80. Jan.-March, 1957.

Discusses the attraction of Siberia, circumstances in European Russia leading to rural mass emigration; characteristics of the movement; means of transport; creation of the typical Siberian settler and Siberian village; contrasts in national policy before and after 1917 and since World War II.

4042 Daumard, Adeline.
Paris et les archives de l'enregistrement. Travaux en cours sur l'histoire sociale du XIXe siècle, 2. Annales: Economies, Sociétés, Civilisations (Paris) 13(2): 289-303. April-June, 1958.

An account of the records kept for a property tax established in 1790 and continued with modifications to the present. Describes the nature of the records and analyses under way, including ones on marriage contracts, occupational structure, and the description of the population from the registration of property transfers after death. See also Title 4059, this issue.

4043 Ellsberry, Elizabeth.
Marriage records from 1842-1857 of Linn County, Missouri. From volume I, copied in 1956 from the original documents from the County Court House in Linneus, Mo. Chillicothe, Mo., [1956]. 12, 37 pp.°

Marriage records of Sullivan County, Missouri, 1845-1859. Chillicothe, Mo., [195-]. 80 pp.°

4044 Fourquin, Guy.
La population de la région parisienne aux environs de 1328. Le Moyen Âge (Paris) 62:63-91. 1956.

"Following Professor Lot, the author discusses the well known 'Etat des paroisses et des feux' of 1328 for the Paris region. Analyzing its details, he obtains densities per square kilometer ranging from 6 to 19 'feux', i.e. families, in the rural areas. The average for the whole Vicomté of Paris is 31.20, if Paris is included, and 14.12 if not...." [E.H.R. 10(1)]

4045 Gutman, Robert.
The accuracy of vital statistics in Massachusetts, 1842-1901. University Microfilms, Publication No. 16,281. Ann Arbor, University Microfilms, 1956. Microfilm copy of typescript: xix, 366 pp. Abstracted in Dissertation Abstracts 16(4):811. 1956.°

4046 Hallam, H. E.
Some thirteenth century censuses. Economic History Review 10(3):340-361. April, 1958.

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4047 Helleiner, Karl F.
New light on the history of urban populations. The Journal of Economic History 18(1):56-61. March, 1958.

A review article dealing mainly with the background and content of the work by Roger Mols cited in 23:Title 1016.

4048 Hobsbawm, E. J.
The British standard of living 1790-1850. The Economic History Review 10(1):46-68. Aug., 1957.

Weighing of various types of evidence bearing on mortality and health, unemployment, and consumption, to show whether the national trend was upward or downward during these years of early industrialization.

4049 Johnson, James H.
The population of Londonderry during

the great Irish famine. Economic History Review 10(2):273-285. 1957. Also separately reprinted.

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Can the population of Finland in the seventeenth century be calculated? Scandinavian Economic History Review (Uppsala) 5(2):155-172. 1957.

"The present paper discusses the possibility of using, on the basis of source material referring to the province of Tavastland, the poll-tax lists to determine the seventeenth century population of Finland." Comparison of estimates so derived with those based on other methods.

4051 Kumorovitz, Bernat L.
[Registers of the Bishopric and Chapter of Veszprem, 1301-1387.] Veszpremi regesztak, 1301-1387. Magyar Orszagos Leveltar Kiadvanyai, II. Forraskiadvayok, 2. Budapest, Akademiai Kiado, 1953. 395 pp.
"Facsimiles, footnotes, index." [E.E. A.I. 7(2)]

4052 Pinchemel, Philippe.
Structures sociales et dépopulation rurale dans les campagnes picardes de 1836 à 1936. Centre d'Etudes Economiques, Etudes et Mémoires, 34. Paris, Colin, 1957. 232 pp.°

4053 Portal, Roger.
Les Russes en Sibérie au XVIIe siècle. Revue d'Histoire Moderne et Contemporaine (Paris) 5(1):5-38. Jan.-March, 1958.
Historical review, with bibliographical orientation, of current knowledge of the conquest and colonization of Siberia, and its significance for the economy of European Russia.

4054 Rosen, Elliot A.
The growth of the American city, 1830 to 1860; economic foundations of urban growth in the pre-Civil War period. University Microfilms, Publication No. 11,952. Ann Arbor, University Microfilms, 1955. Microfilm copy of typescript: iii, 375 pp. Abstracted in Dissertation Abstracts 15(9): 1602-1603. 1955.°

4055 Roys, Ralph L.
The political geography of Yucatan Maya. Carnegie Institution of Washington, Publication 613. Washington, 1957. iv, 187 pp.
Includes summary of data from tribute and tax lists on population figures in the sixteenth century. [A.A. 60(3)]

4056 Russell, Josiah C.
Late ancient and medieval population. Transactions of the American Philosophical Society, New Series, Vol. 48, Part 3. June, 1958. 152 pp.
Presentation of evidence from published literature and data in local archives, covering the period from the later years of the Roman Empire to A. D. 1200 for Europe and the countries around the Mediterranean. "The phases of demography taken up for consideration are total population, proportions by age, sex, and marriage and their relation to such factors as birth and mortality." Chapter on expectation of life presents a selection of life tables based on tomb inscriptions. Chapter on demographic relationships of the city presents data on the relation of areal size of the city to civic population, on the Roman city, and on patterns of cities within countries. Bibliographical footnotes. Reproduction of selected tabulations of data from sources cited.

4057 Sédillot, René.
Histoire des colonisations. Les Grandes Etudes Historiques. Paris, A. Fayard, 1958. 649 pp.°

4058 Thornbrough, Emma L.
The Negro in Indiana: a study of a minority. Indiana Historical Collections, Vol. 37. Indianapolis, Indiana Historical Bureau, 1957. xiii, 412 pp.
A documented study, topically arranged, dealing with the legal and social impact of the Negro minority up to 1900, including internal migration before and after the Civil War and state policy with regard to migration and intermarriage. [A.H.R. 63(3)]

4059 Tudesq, André-Jean.
Les listes électorales de la Monarchie censitaire. Travaux en cours sur l'histoire sociale du XIXe siècle, 1. Annales: Economies, Sociétés, Civilisations (Paris) 13(2):277-288. April-June, 1958.
Description of the nature of and current research on the electoral lists, under various extensions of the suffrage. See also Title 4042, this issue.

[See also Titles 4005, 4022, 4023, 4027, 4127, 4224, 4232, 4324, 4335, 4368, 4369, 4501, 4559]

Regional Demography

4060 Alexandre, J.
La population de la province de Liége. L'Ardenne liégeoise et la région de Mal-

médy-Saint-Vithutoise. Centre d'Etudes et de Documentation Sociales de la Province de Liége (Bulletin Mensuel) 19(3-4): 92-100; 20(5):147-162. March-April and May, 1956.°

For other parts of this study see 22:Title 3050 and 24:Title 1057.

4061 Alves Morgado, Nuno.

[Contribution to the study of the demographic problems of São Tomé and Principe.] Contribuição para o estudo do problema demográfico de S. Tomé e Príncipe. Garcia de Orta; Revista da Junta das Missões Geográficas e de Investigações do Ultramar (Lisbon) 5(4):633-658. 1957. With French and English summaries.°

4062 Banco Nacional de México.

En torno al problema demográfico de México. Examen de la Situación Económica de México (México, D. F.) 24(391):3-6. June 15, 1958.

Review of growth trends since 1930, densities in 1950, and economic problems implied.

4063 Belgium. Institut National de Statistique.

Le mouvement de la population au cours de l'année 1957. Bulletin de Statistique 44(5):766-769. May, 1958.

4064 Boverat, F.

Le surpeuplement accéléré de l'Algérie et ses conséquences tragiques. Nouvelle Revue Française d'Outre-Mer (Paris) 48(5):211-215. May, 1956.°

4065 Brito, Eduino.

[Birth and death rates among the Gabu Fula.] Taxas de natalidade e mortalidade dos Fulas do Gabu. Boletim Cultural da Guiné Portuguesa (Bissau) 11(44):7-26. Oct., 1956.

"The results of a study made in the area of Posto de Sonaco, with 17,682 inhabitants (9,227 men and 8,635 women), based on the civil register of July 1954 to June 1956, are given." Sex ratio, birth rate, the "coefficient of the specific birth-rate or general physiological fertility," multiple births, death rate, infant mortality rate, etc. [A.A. 9(2)]

4066 Burgdörfer, Freidrich.

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4067 Campo, Salustiano del.

[Components in the growth of the population of Spain, 1940-1950.] Componentes del crecimiento de la población de España, 1940-1950. Revista de Estudios Políticos (Madrid), No. 95, Sept.-Oct., 1957. Pp. 149-176.°

4068 Clément, Pierre.

Contribution à l'étude démographique des populations du M'Bomou (Oubangui-Chari-A.E.F.). Documents du Conseil Supérieur des Recherches Sociologiques Outre-Mer. Paris, O.R.S.T.O.M., 1957. 127 pp., processed.

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4069 Cline, John W., and Lippard, Vernon W.

Population characteristics and trends. Report of workship-conference. Journal of the American Medical Association 167(1):51-54. May 3, 1958.

See also Title 4415, this issue.

4070 Conseil Economique Wallon.

Les mouvements de la population belge en 1955 révélent l'acuité de la crise démographique. Revue du Conseil Economique Wallon (Liége), No. 22, Sept.-Oct., 1956. Pp. 15-32.

Discusses components of growth in Wallonia (in the cities, industrial agglomerates, rural communes peripheral to the latter, and agricultural regions) and the provincial plan; then the situation in the Brussels agglomerate and in Flanders.

4071 Convención de Trabajo Social de Puerto Rico.

Memorias de la sexta y septima Convención de Trabajo Social de Puerto Rico. San Juan, 1952. 284 pp.

The texts of the papers read at the two conferences. [Part II.] El problema poblacional de Puerto Rico.

4072 al-Dali, 'Abd-al-Hamid.

[Vital elements in the problems of population in Egypt.] al-'Anasir al-hayawiyah li mushlikat al-sukkan fir Misr. Cairo, Maktabat al-Nahdah al-Misriyyah, [1955]. 420 pp.°

4073 Derwa, Léon.

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Discusses recent trends in Wallonia, compared with Flanders, Brussels, and all Belgium, and in the principal Walloon cities and towns. Tabular data on reproduction and natural increase rates, age structure, household composition.

4074 Diziain, R., and Cambon, A.
Etude sur la population du quartier New-Bell à Douala. Yaoundé, Office de la Recherche Scientifique et Technique Outre-Mer, 1956. 268 pp., processed.
The first of two volumes reporting a sample survey of one tenth of the population of an immigrant quarter of Douala, covering age, sex, and ethnic group, with data on occupation for adults over age 15. [P.R.T. 13(2)]

4075 Durand, G.
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4076 Dykstra, John W.
The population problem of the Netherlands. American Journal of Economics and Sociology 17(3):287-294. April, 1958.
Brief survey of growth trends and economic policy.

4077 Fiebich, K.
[Population balance of the German Democratic Republic.] Die Bevölkerungsbilanz der 'DDR'. Ost-Probleme (Bad Godesberg) 8(44):1526-1533. Nov., 1956.°

4078 Gannagé, Elias.
[Population and growth policy in the Middle East.] Population et politique de croissance au Moyen-Orient. Revue Economique (Paris) 9(1):127-143. Jan., 1958.
Examines available statistical information on demographic structure (mortality rates, fertility rates, rates of natural increase), living conditions (public health, cost of subsistence, education), proposals for improving the economic level (birth control, direct aid in matters of health and hygiene, housing, education), the need for basic investment for a program of industrialization. Data on Egypt, Iraq, Israel, Jordan, and Syria.

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4080 Glauert, Günter.
[Structural changes of population in North Africa during the past decades.] Veränderungen in der Bevölkerungsstruktur Nordafrikas in den letzten Jahrzehnten. Die Erde (Berlin) 88(3-4):298-319. 1957. With English summary.°

4081 Guatemala. Ministerio de Educación Pública.
Integración social en Guatemala. Vol. I. Edited by Jorge Luis Arriola. Seminario de Integración Social Guatemalteca, Publicación No. 3. Guatemala, C. A., Editorial del Ministerio..., 1956. 479 pp. and map.
"...contains the special papers and commentaries given at the seminar on Guatemalan social integration sponsored by the Guatemalan government from June 17 to June 23, 1956. The seminar was organized into four major sections: regional integration, social structure integration, economic integration, and emergent national culture." Papers include: Population patterns, by Nathan L. Whetten, "a preliminary consideration of Guatemalan demography... population distribution, population composition, and settlement patterns, as defined in the national census." [A.A. 60(3)]

4082 Hauger, Jean.
La population de la Guyane Française. Annales de Géographie (Paris) 66(358):509-518. Nov.-Dec., 1957.°

4083 Herouville, H. d'.
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4084 Illoul, A.
Le problème des excédents de population en Europe et en Algérie. Nouvelles Réalites Algériennes (Algiers), No. 2, 1956. Pp. 19-27.°

4085 Koerber, Hans-J. von.
[The population of the eastern German territory under Polish administration. A survey of population trends and problems since 1945.] Die Bevölkerung der deutschen Ostgebiete unter polnischer Verwaltung. Eine Untersuchung der Bevölkerungsvorgänge und -probleme seit 1945. Wirtschaftswissenschaftliche Veröffentlichungen des Osteuropa-Instituts an der Freien Universität Berlin, Band 6. Berlin and Munich, Duncker und Humblot, 1958. 233 pp.°

4086 Krall, Gustav.
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Vienna after the second world war.] Die gesellschaftsbiologische Struktur von Wien nach dem zweiten Weltkrieg. Aufbau (Vienna) 8(5/6):203-209. 1953.°

4087 Lunde, A. S.
Norway: a population study. Ann Arbor, University Microfilms, 1955. Microfilm copy of typescript: viii, 531 pp.°

4088 Marshall, Douglas G.
Selected population data by counties: Wisconsin, 1950-1957. How Wisconsin's population is changing. Madison, University of Wisconsin, College of Agriculture, Department of Sociology, Oct., 1957. Unpaged; 33 charts, processed.
Topics include size of families, off-farm work, migration to cities.

4089 Philipponeau, Michel.
Le problème breton et le programme d'action régionale. Un problème-type de la politique de développement des économies régionales. Centre d'Etudes Economiques, Etudes et Mémoires, No. 36. Paris, Armand Colin, 1957. 179 pp.
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4090 Portugal. Secretariado Nacional de Informação.
Mouvement général de la population (suite). Portugal, Faits et Documents, Nov.-Dec., 1957. Pp. 657-672.°

4091 Prozzillo, Alberto.
Napoli demografica. Nord e Sud (Milan) 4(35):78-90. Oct., 1957.
Summary of data on Naples from the 1951 census and recent vital statistics. [P.R.T. 13(2)]

4092 Saar. Statistisches Amt.
Bevölkerung. Saarländische Bevölkerungs- und Wirtschaftszahlen (Saarbrücken) 8(1/4):6-10, 144. 1956.
Reviews data on population growth and migration, 1947-1956. Table gives monthly data on vital statistics and employment in 1955 and 1956.

4093 Takagaki, Toraji, and Terao, Takuma, Compilers.
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4094 Toni, Y. T.
The population of Cyrenaica. A geographical interpretation of population data in the eastern province of the United Kingdom of Libya. Tijdschrift voor Economische en Sociale Geografie (Rotterdam) 49(1):1-11. Jan., 1958.
Topics considered: Appraisal of the sources of information; Analysis of the main demographic factors (growth of population, dynamics of the native population, the level of fertility, the level of mortality, distribution of population, density of population); Prospects and conclusion. Tables and maps.

4095 Unrein, Hans.
[Population trends in Thuringia, 1910-1949. A regional study.] Die Bevölkerungsentwicklung in Thüringen 1910-1949. Eine regionale Studie. Dissertation, Jena. Jena, 1953. 54 pp.°

4096 Vidhailhet, Jean.
Les conséquences du surpeuplement accéléré de l'Algérie. Revue Economique Française (Paris) 70(2):26-28. May, 1957.
Statistical summary and notes on economic effects of population growth as projected to 1980 by Jacques Breil of the Institut de Statistique d'Alger. See also 22: Title 1040 and 23:Title 2355.

4097 Vogelnik, Dolfe.
[Regional birth and death rates in Yugoslavia.] Natalitetna in mortalitetna področja v jugoslaviji. Ekonomiska Revija (Ljubljana) 7(4):211-246. 1956.°

4098 Wise, T. F.
Population pressures in Pakistan. Journal of the University of Peshawar, Dec., 1955. Pp. 29-33.°

[See also Titles 4118, 4148, 4149, 4376, 4383, 4415, 4508, 4585]

Surveys Containing Demographic Material

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Ethnographic and social research in East Africa: a review. Africa 26(3):265-276. July, 1956.
"Published research work on Kenya, Uganda and Tanganyika is summarized. [Includes] a comparative study of population trends in Buganda and Buhaya." [A.A. 8(1)]

4100 Berle, Beatrice B.
80 Puerto Rican families in New York City: health and disease studied in context. New York, Columbia University Press, 1958. xiv, 332 pp.
Report of a family-oriented field study in a census area corresponding to a health

area which forms part of a larger health district in Manhattan. Chapters include: General characteristics of the 80 families; Migration; Family organization; Language and communication; Fertility and sterilization.

4101 Bulletin de Madagascar.
L'évolution de l'économie malgache en 1955. Bulletin de Madagascar (Tananarive) 6(124):785-802; (125):854-888. Sept. and Oct., 1956.
Includes demographic trends. [I.B.S., VI]

4102 Culwick, G. M.
Social change in the Gezira scheme. Civilisations (Brussels) 5(2):173-180. 1955.
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4103 Douglas, J. W. B., and Blomfield, J. M.
Children under five. London, Allen and Unwin, 1958. 177 pp.
"The starting-point of the work was the investigation by the Population Investigation Committee and the Royal College of Obstetricians and Gynaecologists into the circumstances and costs of all confinements in Great Britain during the first week of March, 1946. Of the 14,000 families involved in that inquiry 5,000 children were selected for longitudinal study, and it is their life-stories up to the age of 5 that Douglas and Blomfield are now concerned with." [Lancet, No. 7029]

4104 [French West Africa.] Territoire de la Côte d'Ivoire. Service de l'Agriculture.
Enquête agricole sur le premier secteur de la Côte d'Ivoire, juin 1956-janvier 1957. [No place, no publisher, no date.] 47 pp., processed.
Report of a sample survey of 57 villages, by an agronomist and a statistician, between June 1956 and January 1957, including population figures. [P.R.T. 13(2)]

4105 Nordiske Socialstatistikkomité.
Co-ordinated statistics of social welfare in the northern countries. Samordnad nordisk statistik rörande sociallagstiftningen. Nordisk Statistik Skriftserie, 4. Stockholm, K. L. Beckman's Boktr., 1957. 134 pp. With English summary.°

4106 Rosen, George.
A history of public health. MD Monographs on Medical History, Number One. New York, MD Publications, 1958. 552 pp.
"The aim of this book is to tell the story of community health action, from its beginnings in the earliest civilizations to the state of development achieved at present in the economically and technologically advanced countries of the world. For this reason, the narrative, especially for the modern period, relates chiefly to those lands which have been the major centers of modern public health — especially Great Britain, France, Germany, and the United States. Where there have been developments of special interest in other countries, reference is made to them."

4107 Seal, S. C., and Bhattacharji, L. M.
Report on a rapid medical and general health survey of the Sikkim State. All India Institute of Hygiene and Public Health, Section of Epidemiology, Calcutta, 31st March, 1954. Calcutta, Govt. of India Press, 1957. iii, 155 pp.°

4108 U. S. S. R. Ministerstvo Zdravookhraneniia. [Ministry of Health Protection.]
[Forty years of Soviet health protection.] Sorok let Sovetskovo Zdravookhraneniya, 1917-1957. Moscow, Medgiz, 1957. 662 pp.
"...the data provided on the actual health conditions of the population continue to be disappointingly sparse. Kovrigina states (page 27) that the crude death rate in the U.S.S.R. was 8.2 in 1955 and 7.7 in 1956 and that the life expectancy in 1955 was 64 years. The direct tabular comparison she makes with the United States and other countries is of quite limited meaning without information regarding the age and sex distribution, possible exclusion of certain groups and other definitions of the population covered or information about the statistical methods by which these figures were derived." [Science 127(3311)]

4109 United Nations. Department of Economic and Social Affairs.
World economic survey 1957. E/3110/ST/ECA/53. Sales No.: 58.II.C.1. New York, 1958. xvi, 228 pp.
Economic developments in the Middle East 1956-1957. Supplement to the World economic survey 1957. E/3116/ST/ECA/55. Sales No.: 58.II.C.2. [New York, 1958.] xii, 164 pp. [Chapters on: Egypt, Iran, Iraq, Israel, Jordan, Lebanon, Syria, Turkey. Chapter on Israel has section on population.]
Economic developments in Africa 1956-1957. Supplement to World economic survey 1957. E/3117/ST/ECA/56. Sales No.: 58.II.C.3. New York, 1958. viii, 84 pp.

4110 Zonneveld, R. J. van.
Public health and the aged in Europe: research and programs. Pp. 68-91 in: Special symposium: a survey of European gerontology, presented at the Tenth Annual Meeting of Gerontological Society, Inc., Cleveland, October 31, 1957. Journal of Gerontology, Supplement 1, 1958.

Part I, Research, has subheads: General health surveys; Social surveys with some health status questions; Regional surveys; A comprehensive medical examination in the Netherlands; Specific investigations; Other investigations of well-being of the aged (surveys of health, employment, and retirement); Surveys of relationship of migration and health; Surveys of use of medical services; Conferences and seminars. Part II considers practices and programs. Bibliography.

C. SPATIAL DISTRIBUTION

General Spatial Distribution

4111 Carruthers, Ian.
A classification of service centres in England and Wales. Geographical Journal 123(3):370-385, and folding diagram. Sept., 1957.

"This paper is concerned with the study of the relationships between 'town' and 'countryside' in England and Wales and in particular with those places on which these relationships centre. Such places are referred to here as 'service centres.'" Description of the classification scheme and demonstration of its application, with statistical maps and tables distinguishing three orders of importance of centers with their hinterlands.

4112 Forichon, R., and Mas, P.
Les problèmes de la répartition du peuplement au Maroc. Bulletin Economique et Social du Maroc (Rabat) 21(76):471-505. 1957.

A statistical description and diagrammatic analysis of the spatial distribution of the Moroccan population in 1952 compared to that in 1936 and projected, 1955-1970, with special reference to rural-urban migration and differential growth rates. Recommendations of governmental measures for redistribution and development.

4113 Hidaka, Tatsutaro.
Population density of Japan. Japan, Ministry of Construction, Geographical Survey Institute, Bulletin (Chiba, Japan) 5(1-2):31-64. March, 1957.°

4114 Hunt, Chester L.
Cotabato, melting pot of the Philippines; a study on population distribution and integration of a non-homogenous community. Manila, Unesco National Commission of the Philippines, 1954. 43 pp.°

4115 Italy. Centro di Documentazione.
Popolazione residente per specie di località: la distribuzione demografica nel territorio nazionale. Documenti di Vita Italiana 8(77):6103-6104. April, 1958.

Area and density by region at the censuses of 1936 and 1951. Summary and tables.

4116 Jennings, J. H.
A population distribution map of the eastern region of Nigeria. Geographical Journal 123(3):416-417. Sept., 1957.

Notes on distributions shown by the census of 1953.

4117 Le Moal, G.
Note sur les populations "Bobo." Bulletin de l'Institut Français d'Afrique Noire, Sér. B: Sciences Humaines (Dakar) 19(3-4): 418-430. July-Oct., 1957.

Presentation of map showing size and location of settlements. Notes on the distribution and recent migration of four linguistic subgroups.

4118 Pietrantoni, Eric.
La population du Laos en 1943 dans son milieu géographique. Bulletin de la Société des Etudes Indochinoises (Saigon) 32(3): 223-243. 1957.°

4119 Schliessleder, Wilhelm.
[Results of the Austrian population census of 1951. Displacement of the population center to the west.] Ergebnisse der Österreichischen Volkszählung von 1951. Verlagerung des Schwergewichtes nach dem Westen. Ausländische Sozialprobleme (Frankfurt/Main) 3(2):13-18. 1953.°

4120 Smeds, Helmer.
The distribution of urban and rural population in southern Finland 1950. Fennia, Vol. 81, No. 1. Helsinki, 1957. 21 pp. plus colored map, 1:400,000. Also separately reprinted.

Notes on the methods of compilation and on the distributions revealed in mapping areal data from the 1950 population census. Table lists the 122 urban settlements of southern Finland according to size of population, with analyses of conurbations and economic activity.

4121 Verma, Sat Dev.
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Appendix A. Note on the adequacy of the models as applied to particular regions.

Appendix B. Detailed tables of model populations (Explanatory note; Tables I-V, Growth of population, by five-year age groups, during five-year intervals of time according to various models).

Appendix C. Detailed tables of future population estimates for the world, continents, regions and countries (Table I A, Estimates of the populations of the world, continents, and regions, 1950-1975, on high and low assumptions; Table I B, [Idem], 1975-2000, on three assumptions; Table II, Estimates of the future population of countries, 1955-1975).

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E. MORTALITY

General Mortality

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4179 Metropolitan Life Insurance Company.

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[See also Titles 4079, 4175, 4179]

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4186 Freudenberg, Karl.

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4190 Great Britain. Government Actuary.
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Cancer mortality among native white, foreign-born white, and nonwhite male residents of Ohio: cancer of the lung, larynx, bladder, and central nervous system. Journal of the National Cancer Institute 20(1): 79-105. Jan., 1958.°

4206 Mats, D. I., et al.
[Certain statistical data on pulmonary cancer.] Nekotorye dannye po statistike raka legkikh. Voprosy Onkologii (Moscow) 3(5):611-616. 1957. This journal is also available in English translation as Problems of Oncology.

4207 Ruys, A. C.
[Changes in tuberculosis mortality in the Netherlands and some other countries.] Veranderingen in de tuberculosesterfte in Nederland en in enkele andere landen. Nederlands Tijdschrift voor Geneeskunde (Amsterdam) 101(43):2000-2003. Oct. 26, 1957.°

4208 Smit, Z. M.
Determination of trends of mortality from heart disease, coronary disease and general arteriosclerosis in the white population of the Union of South Africa. South African Journal of Laboratory and Clinical Medicine (Cape Town) 3:29-38. 1957.°

4209 Sokolova-Natanson, E. P.
[Some clinical-statistical results of the analysis of tuberculosis mortality in 1954 in Leningrad.] Nekotorye kliniko-statisticheskie vyvody iz analiza letal'nosti pri tuberkuleze v 1954 g. v Leningrade. Problemy Tuberkuleza (Moscow) 35(6):10-14. 1957.°

4210 Spann, W.
[Weather and death.] Wetter und Tod. Deutsche Medizinische Wochenschrift (Stuttgart) 82:251-254. 1957.°

4211 Temple, H. R.
South Carolina's maternal mortality for 1955. Journal of the South Carolina Medical Association 54(2):48-51. Feb., 1958.°

4212 Tobacco Manufacturers' Standing Committee.
Statistics of smoking. Edited by G. F. Todd. Research Papers, No. 1. [London, 1957.] 64 pp., processed.°

4213 Tuckman, Jacob, and Lavell, Martha.
Study of suicide in Philadelphia. Public Health Reports 73(6):547-553. June, 1958.
Analysis of data from medicolegal records, 1951-1955, on age, sex, race, marital status, nativity, employment, physical and mental health, medical care, reported causes, method, place.

4214 Tuyns, A.
La mortalité par alcoolisme en Belgique. Archives Belges de Médecine Sociale, Hygiène, Médecine du Travail et Médecine Légale (Brussels) 15(5-6):250-267. May-June, 1957.°

4215 U. S. National Cancer Institute.
The extent of cancer illness in the United States. By the Biometry Branch of the National Cancer Institute. U. S. Public Health Service, Publication No. 547. Washington, U. S. Department of Health, Education, and Welfare, Public Health Service, National Institutes of Health, 1958. 23 pp.°

[See also Titles 4174, 4175, 4179, 4242, 4523, 4530, 4546, 4548, 4556]

F. FERTILITY AND NATURAL INCREASE

General Fertility

4216 Allen, Gordon, and Firschein, I. Lester.
The mathematical relations among plural births. American Journal of Human Genetics 9(3):181-190. Sept., 1957.
Compares expected and observed multiple births of several types in the United States, 1952-1954, with reference to the applicability of Hellin's law.

4217 Arumugam, Lily, and Jayewardene, F. L. W.
A note on the age of menarche in Ceylon. Ceylon Journal of Science, Sect. G. 5(3): 151-152. 1957.
"Four racial groups: Sinhalese (334), average 13.20 years...Tamils (184), average 13.02 years...Burghers (94), average 12.73 years...Muslims (78), average 12.61 years." [B.A. 32(5)]

4218 Day, Lincoln H.
Age of women at completion of childbearing. Public Health Reports 73(6):525-532. June, 1958.
Summary report of analysis of U. S. census data concerning the proportions of all mothers with no children under five years old, by age, race, and residence of mother, 1950, 1940, and 1910, with adjustments for underenumeration and for infant and child mortality. Discussion of socioeconomic and demographic factors in the observed changes.

4219 France. Institut National d'Etudes Démographiques.
[Attitudes towards fertility at Vancouver.] Attitudes à l'égard de la fécondité à Vancouver. Population (Paris) 13(2):299-304. April-June, 1958.
Comparison of the results of an opinion survey conducted by T.-I. Matuszewski of the University of British Columbia in 1956 and 1957, on desired family size and other aspects of fertility, with the results of a similar survey conducted by the I.N.E.D. at the end of 1955. See 22:Title 4202.

4220 Gebhard, Paul H., et al.
Pregnancy, birth, and abortion. New York, [published for the] University of Indiana, Institute for Sex Research, Inc. [by] Harper, 1958. xix, 282 pp.
"The data presented in the main body of this study represent a portion of the information secured from 5,293 white non-prison females who contributed their case histories to our study of human sexual behavior. In addition...are data derived from 572 Negro non-prison females plus 309 Negro women interviewed in prison and 900 white women interviewed in prison."
Introductory chapters deal with terms and methods, and the sample. Appendix, Some notes on abortion problems in other countries, deals with the Soviet Union, Japan, Sweden, Denmark, Iceland, Finland and Norway, England, Germany, France, Latin America. Bibliography.

4221 Germany. Federal Republic. Statistisches Bundesamt.
[The time interval between marriage and birth of first child.] Der Zeitabstand zwischen Eheschliessung und Geburt des ersten Kindes. By Henriette Peters. Wirtschaft und Statistik 10(4):214-216, 183*. April, 1958.
An analysis of figures for a number of the Länder, 1954, 1955, and 1956, with some earlier figures and figures from Denmark 1956 for comparison. Regional differences and differences by size of community with special emphasis on proportions of premarital conceptions.

4222 Hulstaert, G.
Dénatalité dans l'Uele. Aequatoria (Coquilhatville) 18(3):105-106. 1955.°

4223 Inouye, Eiji.
Frequency of multiple birth in three cities of Japan. American Journal of Human Genetics 9(4):317-320. Dec., 1957.
Report of observations of birth data obtained by a survey of the birth registration in Sapporo City, Nakono District of Tokyo, and Nada District of Kobe during the five years 1949-1953.

4224 Okun, Bernard.
Trends in birth rates in the United States since 1870. Baltimore, The Johns Hopkins Press, 1958. 236 pp.
"The concern of this book is with the decline in the birth rate in the advanced countries of the world, with major attention focused on the United States. Empirical evidence of the decline is presented, and factors which may have accounted for the decline are explored. The author summarizes within a workable framework the wide variety of hypotheses that have been adduced as explanations of the long-run decline in the birth rate. The methodological approaches to the study of trends in the birth rate are examined with respect to their usefulness in the hypothesis formulation and testing stages of research." [Publisher's announcement]
Chapters: Secular trends in the birth ratio of whites, by states for the United States, 1870-1950; Secular trends in the birth ratio of Negroes, by selected states, for the United States, 1870-1950; A review of hypotheses and approaches used in explaining declining trends in birth rates.

4225 Vieira, Ruy Alvaro.
[Some demographic data on the Bijagó of Portuguese Guinea.] Alguns aspectos demograficos dos Bijagós da Guiné Portuguesa. Boletim Cultural da Guiné Portuguesa (Bissau) 10(37):23-33. Jan., 1955.
"An investigation was carried out among 100 women of the island of Bubague." Pregnancies per woman, sterility rate, average number of children per woman, cu-

mulative fertility rate, cumulative 'prolificity' rate, percentage of abortions in relation to pregnancy and of deaths, masculinity ratio among births and deaths in infancy. [A.A. 8(3)]

4226 Viet-Nam.
Statistiques des naissances à Saigon-Cholon en 1955. Bulletin Economique du Viêt-Nam (Saigon) 7:292-296. June, 1956.°

4227 Voglnik, Dolfe.
[The distribution of the intervals between marriage and first birth by age of mother and urban or rural domicile in Slovenia.] O distribuciji intervala izmedu braka i prvog rodenja prema starosti majke i pripadnosti gradskom odnosno seoskom stanovništvu na primeru Slovenije. Statistička Revija (Belgrade) 7(4):400-406. Dec., 1957. With English summary.
Methodological notes and presentation of analysis of the distribution of the intervals in months for the marriage cohorts of the years 1948 to 1954. Notes on sociological interpretation.

[See also Titles 4027, 4065, 4073, 4079, 4094, 4097, 4100, 4149, 4230, 4328, 4332, 4447, 4452, 4454, 4456]

Differential Fertility

4228 Anastasi, Anne.
Intelligence and family size. Psychological Bulletin 53:187-209. 1956.
"A critical review of the theoretical and methodological aspects of the research literature concerned with differential fertility, and intelligence test performance in relation to family size is presented.... An ideal research design is briefly outlined. 110-item bibliography." [P.A. 32(1)]

4229 Boek, Walter E., et al.
Social class, maternal health and child care; an interviewing study of mothers with three-to-six month old babies. New York, New York State Department of Health, [1957]. xii, 138 pp.
"...study carried on through facilities of the Department of Sociology and Anthropology at Cornell, assisted by 22 instructors and their students throughout upstate N. Y." Findings on: "health practices and social class, family planning, previous pregnancies, working mothers,...mother's aspirations for her child." [P.A. 31(5)]

4230 Graffar, Marcel, et al.
Cinq cents familles d'une commune de l'agglomération bruxelloise. Etudes d'Agglomérations. Brussels, Institut de Sociologie Solvay, 1957. 103 pp.
Report of a field survey of all families where a birth had occurred in the past year in a Brussels suburb of 57,000. Results, analyzed by social class, on family composition, housing, outside occupational and domestic work of mothers, nutrition, medical care during pregnancy and lactation. [P.R.T. 13(2)]

4231 Salisbury, W. Seward.
Religion and secularization. Social Forces 36(3):197-204. March, 1958.
Report of a sample study of 1675 undergraduate students at ten state teachers colleges within the State University of New York. Tabulated data include number of children expected by religious preference groups, by sex, and analyses of variance.

4232 Wrong, Dennis H.
Class fertility differentials before 1850. Social Research 25(1):70-86. Spring, 1958.
"The present paper surveys the evidence pertaining to class fertility differences and, less fully, rural-urban differences in several countries of Western Europe and in the United States before 1850. Because broad similarities exist between pre-1850 social and economic conditions in the Western world and contemporary underdeveloped areas in Asia, Africa, and South America, the pattern of differential fertility in several countries from the latter group is reviewed first."

4233 Wrong, Dennis H.
Trends in class fertility in Western nations. Canadian Journal of Economics and Political Science 24(2):216-229. May, 1958.
"The attempt is made to gather together by historical period the available data on trends in class differences in fertility for several Western countries in order to present a systematic picture of the way in which these differences have evolved in modern times." Summary of findings on periods considered: from the beginning of the decline in the birth-rate to 1910; from 1910 to 1940; the baby boom after 1940. Conclusions as to the future of class fertility-differences.

4234 Yankauer, Alfred, et al.
Social stratification and health practices in child-bearing and child-rearing. American Journal of Public Health and the Nation's Health 48(6):732-741. June, 1958.
Data tabulated include employment of mothers of first and of second or later

children and plans for returning to work after the birth.

[See also Title 4218]

Sterility and Other Pathology

4235 Bocci, A.
[Conjugal incompatability for blood antigens and abortion.] Incompatibilità coniugali per gli antigeni ematici ed aborto. Rivista di Emoterapia ed Immunoematologia (Pavia) 4(3):149-192. 1957.°

4236 Campbell, H.
Infertility; its incidence and hope of cure. British Medical Journal, No. 5068, Feb. 22, 1958. Pp. 429-433.°

4237 Whitridge, John, Jr.
Research in human reproductive wastage: implications for public health. American Journal of Public Health and the Nation's Health 48(1):22-28. Jan., 1958.
Follows out the implications of the article by George W. Anderson in Ibid., Jan., 1957, and presents a 6-point program.

4238 Yildiran, C.
[Results of 400 examinations of male sterility.] Erkek fertilite ve sterilitesinde (400) kisirlik vak'asindan aldiğemiz neticeler. Türk Tip Cemiyeti Mecmuasi (Istanbul) 23(7):359-382. July, 1957.°

[See also Titles 4179, 4220, 4225, 4242, 4267, 4332]

Fertility Controls

4239 Arén, Per.
On legal abortion in Sweden: tentative evaluation of justification of frequency during last decade. Acta Obstetricia et Gynecologica Scandinavica, Vol. 37, Supplement 1. Translated by L. James Brown. Lund, Berlingska Boktryckeriet, 1958. 75 pp. [Contents: Introduction; The Swedish abortion law; Historical; Part I, Pregnancy after abortion; Part II, Women who gave birth after earlier legal abortion; Part III, Prognosis in cases in which the legal abortion was granted but not performed; Discussion; Summary. The dissertation comprises the contents of the studies cited in 24: Title 3321 and in the titles listed below.]
Undersökning av 100 nyblivna mödrar med legal abort in anamnesen. Svenska Läkartidningen (Stockholm) 55(8):505-522. Feb. 21, 1958.°
Prognosen vid beviljad men icke utförd legal abort. By Idem and C. Amark. Ibid. 54(49):3709-3784. Dec. 6, 1957.°

4240 Calderone, Mary S., Editor.
Abortion in the United States. A conference sponsored by the Planned Parenthood Federation of America, Inc., at Arden House and the New York Academy of Medicine. New York, Hoeber-Harper, 1958. viii, 224 pp.
Condensation of verbatim proceedings. Chapters include: Background of the conference; Abortion in the Scandinavian countries; Illegal abortion in the United States (Incidence, Methods used, Causes of death); Therapeutic abortion in the United States; Other aspects of the abortion problem (Psychiatric aspects, Sociologic aspects); Abortion and contraception; Report of the Statistics Committee.
Appendixes: A. Abortion laws in the United States, by Fowler Harper; B. Birth control laws in the United States, by Harriet Pilpel and Theodora Zavin; C. Abortion in Japan, Germany, U. S. S. R. and Finland; D. Demographic characteristics of females interviewed by the staff of the Institute for Sex Research, compared with the urban white population, by Christopher Tietze; E. Bibliographies (Materials referred to at the conference; Selected preconference and postconference material relevant to topics discussed at the conference).

4241 Family Planning Association of India. Central Office.
Second All India Conference on Family Planning, Report of the proceedings 1-4 January 1955, Campus, Lucknow University, United Provinces. Bombay, Family Planning Association of India, n.d. xvi, 118 pp.

4242 Germany. Federal Republic. Schleswig-Holstein. Ärztekammer Schleswig-Holstein.
[Pregnancy interruption and birth control.] Schwangerschaftsunterbrechung und Geburtregelung. Bericht über eine Arbeitstagung der Ärztekammer Schleswig-Holstein in der Grenzakademie Sankelmark am 1. und 2. September 1956. Reprint of Nos. 9-12/1956 of Schleswig-Holsteinisch Ärzteblatt. Bad Segeberg/Holst., C. H. Wäsers Druckerei, [1956]. 76 pp.
Contents:
Vogeler, Karl. Schwangerschaftsunterbrechung und Geburtregelung....
Rohden, Friedrich von. Die Entwicklung der legalen Schwangerschaftsunterbrechung im Bundesgebiet im ersten Nachkriegsjahrzehnt. [Presents tabulations of statistical data on total legal abortions

annually by province, the Saar, and West Berlin; legal abortions by religious affiliation for Kreise in Schleswig-Holstein; relation between total abortions and total births, 1932-1955, Germany, Sweden, Denmark; morbidity and mortality related to abortions, Lübeck, 1950-1955.]

Mehlan, K. H. Die Schwangerschaftsunterbrechungen in der Deutschen Demokratischen Republik in den Jahren 1946/1950. [With statistical documentation.]

Harmsen, Hans. Zur Entwicklung des legalen Schwangerschaftsabbruchs und der illegalen Abtreibung in der UdSSR, der DDR und den skandinavischen Staaten. [Non-statistical.]

Philipp, [Dr.], et al. Diskussionsbemerkungen.

Bornikoel, [Prof. Dr. med.]. Schwangerschaftsunterbrechung und Geburtregelung aus religiöser Sicht.

Thoemmes, Ulrich. Schwangerschaftsunterbrechung in katholischer Sicht.

Knaus, Hermann. Zur Frage der natürlichen Geburtregelung und ihrer individuellen Anwendung.

Dietel, H., et al. Diskussionsbemerkungen. [With tables and diagrams.]

Gesenius, H. Empfängnisverhütung unter Anwendung von Mitteln.

Massenbach, v., et al. Diskussionsbemerkungen.

4243 Koya, Yoshio.
Some findings in a recent survey conducted by the Family Planning Federation of Japan. Family Planning News (Tokyo), No. 7, June, 1958. Pp. 1-4.

4244 Koya, Yoshio, and Muramatsu, Minoru.
A survey of health and demographic aspects of induced abortion in Japan. Special Report No. 3. Bulletin of the Institute of Public Health 4(1-2). Sept., 1954. 9 pp.
See also 20(3):Title 1373, 20(4):Title 1924, and 22:Title 2239.

4245 Lancet.
An oral contraceptive. Lancet, Vol. I for 1958, No. 7025, April 19, 1958. Pp. 844-845.
A summary of the second Oliver Bird lecture, on fertility control with oral medication, given by Gregory Pincus (see Title 4246, this issue). Field trials of "Enovid" in Puerto Rico are described.

4246 Pincus, Gregory, et al.
Fertility control with oral medication. American Journal of Obstetrics and Gynecology 75(6):1333-1346. June, 1958.
Report of findings of the first 16 months' investigation, to August 31, 1957, in a field trial in Puerto Rico of medication by tablets containing Norethynodrel with estrogen supplement (3-methyl ether of ethinyl estradiol). For details of procedures used see Title 4252, this issue.

4247 Population Problems Research Council. The Mainichi Newspapers, Tokyo.
Fourth public opinion survey on birth control in Japan. Population Problems Series, No. 15. [By Tatsuo Honda.] Tokyo, 1958. 60 pp.
Comparison of findings of the fourth survey in May 1957 (6,003 replies) with those of the previous surveys in April 1950, May 1952, and May 1955, covering attitudes, practice, and results obtained. Schedule questions on methods and on abortion.

4248 Prasad, Lakshman.
Attitudes towards family planning; a study of pre-action attitudes of 100 women of urban community. Indian Journal of Social Work (Bombay) 17:184-188. Dec., 1956.°

4249 Saeeda Waheed.
Over-population and family planning. Pakistan Review (Lahore) 6(1):7-8, 10. 1958.
Aims and work of the Family Planning Association of Pakistan. [T.A. 13(4)]

4250 Sanyal, S. N.
Oral contraception in relation to population projection and future planning in India. Man in India (Ranchi) 37:199-207. July-Sept., 1957.°

4251 Sarkar, S. S., and Sanyal, S. N.
Contraception and civilization. Man in India (Ranchi) 36(2):81-91. April-June, [1956].°

4252 Searle, G. D., and Co.
Proceedings of symposium on 19-Nor progestational steroids. Chicago, G. D. Searle and Co., 1957. 122 pp.
Contains papers by Gregory Pincus and by Edris Rice-Wray on "procedures employed in assembling projects, the instructions given, the regime of medication, the problems encountered, and some of the results of the first 8 months of the Puerto Rican study" referred to in Title 4246, this issue. [A.J.O.G. 75(6)]

4253 Stycos, J. Mayone, et al.
Problems of communication between husband and wife on matters relating to family limitation. Human Relations 9(2): 207-215. 1956.
"...based on human fertility research conducted at the Social Science Research

Center of the University of Puerto Rico. Qualitative materials stem from intensive interviews with 72 lower-class husbands and wives, quantitative materials mainly from 3,000 short interviews with patients in public health clinics and hospitals throughout the island."

4254 Zuckerman, Solly.
The control of human fertility. Impact of Science on Society 9(2):61-78. 1958.
Discusses: The Malthusian principle; Contraception throughout history; Fertility control in the overpopulated countries; The outlook in overpopulated areas; The prospects for an anti-fertility "pill."

[See also Titles 4017, 4027, 4100, 4149, 4219, 4220, 4229, 4268, 4421]

Natural Increase

See Titles 4014, 4073, 4079, 4542, 4543, 4552.

G. MARRIAGE, DIVORCE, & THE FAMILY

Marriage and Divorce

4255 Chatterjee, Heramba.
Conception of Hindu marriage. Calcutta Review 141:147-152. Nov., 1956.°

4256 Freire-Maia, Newton.
Consanguineous marriages in Brazil. I. Structure of such marriages. II. Factors of geographic distribution. Eugenics Quarterly 5(2):105-114. June, 1958.
"The data to be presented below have been obtained from an analysis of the files of two Brazilian Archdioceses (São Paulo and Curitiba). For a discussion of the validity of extrapolating from such data to the whole population, see [the work cited in Title 4257, this issue]."

4257 Freire-Maia, Newton.
Inbreeding in Brazil. American Journal of Human Genetics 9(4):284-298. Dec., 1957.
"An analysis is made of the incidence of consanguineous marriages in about 60 dioceses distributed among almost all the Brazilian States....Several examples of geographic gradients and trends in time are presented. Estimates of mean incidence of consanguineous marriages are calculated for each Brazilian State and for the whole country. The problem of isolate size is briefly discussed."

4258 Glick, Paul C., and Carter, Hugh.
Marriage patterns and educational level. American Sociological Review 23(3):294-300. June, 1958.
An analysis of marriage patterns in the United States about 1950 (number of marriages, age at marriage, stability of marriage, resident and nonresident marriages, number of times married, broken marriages, bachelorhood and spinsterhood).

4259 Golden, Joseph.
Social control of Negro-white intermarriage. Social Forces 36(3):267-269. March, 1958.
Brief summary of literature on legal barriers in the United States and types of social pressure brought to bear against such marriages, with individual examples. Factors which lessen the effectiveness of these controls will be discussed in a future study.

4260 Lah, Ivo.
[A method of calculating nuptiality and divorce tables on the basis of census data.] Metodologija izračunavanja nupcijalitetnih i divorcijalitetnih tablica na osnovu rezultata popisa stanovništva. Statistička Revija (Belgrade) 7(4):407-415. Dec., 1957. With French summary.
Description of formulas for use with stationary and with non-stationary populations. Application to the data of the Yugoslav census of 1948. Tabular and graphic presentation of the results.

4261 Metropolitan Life Insurance Company.
Marriage rate is decreasing. Statistical Bulletin, Vol. 39, May 1958. Pp. 1-3.
A summary of change, 1955-1957, in numbers of marriages in the United States, by geographic division and state and in certain cities.

4262 Mitchell, J. Clyde.
Aspects of African marriage on the Copperbelt of Northern Rhodesia. Human Problems in British Central Africa (Lusaka), No. 22, Sept., 1957. Pp. 1-30.
"This paper attempts to provide some [systematic data on urban marriages of Africans] as a result of a brief survey in Luanshya. Here there are some 43,600 Africans in mine compound and municipal location, predominantly in the 20-45 age group; the sex ratio is 142 males to 100 females...." [A.A. 9(2)]

4263 Monahan, Thomas P.
The changing nature and instability of remarriages. Eugenics Quarterly 5(2):73-85. June, 1958.
A review of the literature on the situation in the United States with a summary of findings and of the adequacy of the basic data.

4264 Perico, Giacomo.
Il divorzio; aspetti storici, giuridici, morali. Milan, Centro Studi Sociali, 1955. 98 pp.°

4265 Sutter, Jean.
[Changes in the distance separating the residences of future spouses in the Departments of Loir-et-Cher (1870-1954) and Finistère (1911-1953).] Evolution de la distance séparant le domicile des futurs épous (Loir-et-Cher 1870-1954; Finistère 1911-1953). Population (Paris) 13(2):227-256. April-June, 1958.
Discusses the present state of the general problem of measuring the breakup of isolates and gives a detailed summary of the variations in distance observed in the two studies under review. Statistical annex presents basic tables.

4266 Un Sun Song.
Marriage and the family in Korea. Korean Survey (Washington, D. C.) 4-6 ff. April, 1958.
Traditional customs and present day modifications. [P.A.I.S. 44(38)]

[See also Titles 4040, 4042, 4043, 4058, 4269, 4274, 4424, 4457, 4530]

The Family

4267 Braestrup, Agnete.
Children born out of wedlock in Copenhagen, their family milieu at age of five years. Acta Paediatrica (Uppsala and Stockholm) 45:352-355. 1956.
Percentage living in a home with a father and a mother (own or adopted); prematurity, mortality, morbidity, profit from schooling. [P.A. 31(5)]

4268 Church of England. Moral Welfare Council.
The family in contemporary society. The report of a group convened at the behest of the Anglican Church with appended reports from the U.S.A., Canada, and India. LC 1958/6. London, S.P.C.K. [Society for Propagating Christian Knowledge], 1958. viii, 230 pp.
A survey of contemporary demographic trends and recommendations for social policy in Great Britain to be presented at the Lambeth Conference. Members of the group included Sir Alexander Carr-Saunders, T. S. Simey, and R. M. Titmuss. Chapters include: Population; Economic and industrial development; The reduction of mortality; Family planning; Social change; Related questions of Church discipline. Appendixes: An assessment and theological consideration of the facts upon which the report is based; The family in the United States; The family and modern society in Canada, 1957; Family planning in India.

4269 Clarke, Edith.
My mother who fathered me; a study of the family in three selected communities in Jamaica. London, G. Allen and Unwin, 1957. 215 pp.
Chapters: Background; Land tenure; Marriage; Sex, procreation, and institutions of concubinage; The organization of the households; The development of kinship roles. "Chapters 5 and 6 throw a new light on the immensely complicated and variegated patterns of Jamaican family life and the structure of peasant households." [International Affairs 34(2)]

4270 Familles dans le Monde.
Situation économique générale de la famille en Allemagne fédérale. Familles dans le Monde (Paris), Sept., 1957. Pp. 165-173.°

4271 Macura, Miloš, and Breznik, Dušan.
[Households and families in the census of 1953.] Domaćinstva i porodice u popisu stanovništva 1953. Statistička Revija (Belgrade) 7(3):281-307. Oct., 1957. With French summary.
Discusses the complexity of the problem, definitions, classifications, presentation of the basic tables, and orientation of research based on them.

4272 Pramanik, Paramananda.
Study of family structure among East Pakistan refugees. Modern Review (Calcutta) 101:233-238. March, 1957.
Refers to refugees in India. [S.A.A.L. 7(4)]

4273 Séminaire International de Recherche sur la Famille and Institut UNESCO des Sciences Sociales, Cologne.
Studies of the family. Recherches sur la famille. Untersuchungen über die Familie. Vol. 2. Séminaire 1955 du....UNESCO-Institut für Sozialwissenschaften, Schriftenreihe, Band 5. Göttingen, Vanden-

hoeck und Ruprecht, 1957. 337 pp.°
For citation to Vol. 1 see 23:Title 4220.

4274 Tait, David.
The family, household and minor lineage of the Konkomba. Africa 26(3):219-249; (4):332-342. July and Oct., 1956.
Description of a society where "men seldom marry before the age of 35 or 40...." [A.A. 8(2)]

[See also 4088, 4100, 4152, 4219, 4266, 4525]

H. INTERNATIONAL MIGRATION

General

4275 Allyn, Nathaniel C.
European immigration into Canada, 1946-1951. Ann Arbor, University Microfilms, [1953]. Microfilm copy of typescript: vi, 334 pp. Abstracted in Dissertation Abstracts 13(5):771-772. 1953.°

4276 American Council for Judaism. Research Department.
Worldwide Jewish migration, 1951-1957. New York, 1957. 17 pp., processed.
A "survey of earlier occasional statistics and newspaper articles." [Kyklos 11(2)]

4277 [Antonopoulos, K.] Antônopoúlou, K.
[On the problem of emigration.] Gúrô ápó tó próblêma tês metanasteúseôs. 'Aktines (Athens) 18:27-30. 1956.°

4278 Bo, D. del.
[Emigration during the contemporary international period.] L'emigrazione nell'attuale momente internazionale. Rassegna Italiana di Politica e di Cultura (Rome) 33(375):75-86. Feb., 1956.°

4279 Catholic Social Life Conference, Second, London, Ont., 1954.
Immigration and land settlement; proceedings and addresses. Ottawa, [1954]. 181 pp.°

4280 Far Eastern Economic Review.
Japanese emigration in the postwar period. Far Eastern Economic Review (Hong Kong) 24(12):365. March 20, 1958.
Notes on the governmental and private organizations concerned in Japan with assisting overseas emigration.

4281 Figueroa, John.
British West Indian immigration to Great Britain. Caribbean Quarterly (Port-of-Spain) 5:116-130. Feb., 1958.
"Cultural and economic factors." [P.A. I.S. 44(34)]

4282 France. Ministère de l'Intérieur. Direction des Affaires d'Algérie.
Etude sociologique de la migration des travailleurs musulmans d'Algérie en Métropole. Cahier Liminaire...Cahier, No. 1...No. 8. Paris, n.d., 33 pp.
Discussion, maps, tables. [I.N.S.E.E. April 21-30, 1958.]

4283 Geschwind, Henrik.
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K. DEMOGRAPHIC AND ECONOMIC INTERRELATIONS

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change in households; per cent of change in households]. Table II-B, Disposable personal income, number of marriages, and number of live births [1929-1956]. Table II-C, Age structure of the population [1910-1976]. Table III-B, Employment, unemployment, and distribution of the labor force [1920-1975].

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4397 India. Labour Bureau.
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4398 U. S. Federal Reserve System. Board of Governors.
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[See also Titles 4135, 4137, 4139, 4162, 4309, 4320, 4340, 4348, 4352, 4353, 4357, 4382, 4402, 4404]

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[See also Titles 4394, 4396]

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[See also Titles 4004, 4007, 4009, 4024, 4078, 4081, 4105-4108, 4114, 4128-4130, 4144, 4169, 4220, 4229, 4230, 4258, 4268, 4281, 4282, 4335, 4337, 4378]

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M. POLICIES

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[See also Titles 4013, 4015, 4027, 4070, 4076, 4078, 4376]

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4428 Villard, Henry H.
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4434 Steigenga, Willem.
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4435 Union of South Africa. Laws, Statutes, etc.
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[See also Titles 4041, 4058, 4089, 4112, 4134, 4138, 4306, 4309, 4314, 4321, 4322]

Policy on International Migration

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See also 23:Title 3419.

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Policy on Quality

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[See also Titles 4014, 4024, 4417]

N. METHODS OF RESEARCH AND ANALYSIS

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4447 Fuguitt, Glenn V.

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4448 Great Britain. Registrar General's Advisory Committee on Medical Nomenclature and Statistics.

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4449 Inter American Statistical Institute.

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"This special issue of Estadística brings together a set of methodological articles of current information and of reference materials thought to be of basic interest to those who, for professional or administrative reasons are concerned with the application at the Government level of techniques that have acquired high popularity in the conduct of statistical surveys."

Partial contents:

Hauser, Philip M. [The use of sampling in registers and vital statistics.] El uso del muestreo en inscripciones y en estadísticas de los hechos vitales.

Irizarry, Alicia C. de. [Application of sampling to the study of the labor force and other studies in Puerto Rico.] Aplicación del muestreo para el estudio del grupo trabajador y otros estudios en Puerto Rico.

Mahalanobis, P. C., and Sen, S. B. [Some aspects of the National Sample Survey of India.] Sobre algunos aspectos de la encuesta nacional de la India por muestras.

Moraes, O. Alexander de. [Brief consideration of the concept of the "sample census."] Breves consideraciones acerca del concepto "censo por muestra."

Keyfitz, Nathan. [Calculation of variance in a monthly population sample.] Cálculo de variancia en una encuesta mensual de población.

Hansen, Morris H. Effect of the new design for the Current Population Survey.

U. S. Bureau of the Census. Description of the sample design of the U. S. National Health Survey.

Definitions of terms used in the field of sampling with Spanish, English, and Portuguese equivalents.

Report on the use of sampling in the Western Hemisphere in the last five years. Informe sobre el uso del muestreo en el hemisferio occidental durante los cinco ultimos años.

Bibliography — bibliografia. ["The regular bibliography...has been suspended for this issue. In its place, there is a bibliography pertaining specifically to sampling...."]

4450 International Social Security Association. Association Internationale de la Sécurité Sociale. Internationale Vereinigung für Soziale Sicherheit.

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Vol. I. The actuarial problems of sickness and maternity insurance with special reference to medical care. 1957. xxviii, 632 pp.

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4451 Kempthorne, Oscar.
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See Title 4153.

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STATISTICS

COMPLETE EXPECTATION OF LIFE ($\mathring{e}_x$) AT VARIOUS AGES IN SELECTED COUNTRIES /1

These figures are the most recent available since 1939 and are, with some exceptions, for countries with populations of 100,000 or more. No adjustment has been made for deficiencies, which in some cases may be serious. Unless otherwise noted the figures were taken from publications of the United Nations Statistical Office, which present mainly data officially submitted by governments.

Country	Years	Sex	Age					
			0	1	10	20	40	60
North America								
Barbados /a	1945-47	M	49.17	57.43	51.82	42.66	26.05	13.23
		F	52.94	61.64	55.80	46.79	30.39	15.80
British Honduras /b	1944-48	M	44.99	50.48	46.86	38.78	25.29	13.18
		F	48.97	54.29	49.95	42.18	29.22	15.94
Canada	1950-52	M	66.33	68.33	60.15	50.76	32.45	16.49
		F	70.83	72.33	64.02	54.41	35.63	18.64
Costa Rica	1949-51	M	54.65	59.97	55.59	46.50	29.70	14.85
		F	57.05	61.58	57.22	48.00	31.21	15.84
El Salvador	1949-51	M	49.94	54.31	52.85	44.48	30.24	16.94
		F	52.40	56.35	54.99	46.50	31.53	17.40
French West Indies /c	1951-55	M	55.4	58.1	52.1	42.8	26.4	13.8
		F	59.2	61.4	55.4	46.1	30.3	16.5
Guatemala	1949-51	M	43.82	48.28	48.56	41.08	26.86	14.73
		F	43.52	47.17	47.68	40.27	26.94	14.26
Haiti /d	1950	M, F	32.61	38.37	38.87	34.41	24.38	15.54
Jamaica (ex. dep.)	1950-52	M	55.73	59.85	54.46	45.26	28.63	14.30
		F	58.89	62.42	56.68	47.74	31.45	16.49
Leeward Islands	1946	M	49.53	55.03	50.17	41.19	26.06	-
		F	54.76	59.58	54.44	45.63	29.90	-
Mexico /2	1950	M	46.67	52.35	51.12	42.73	28.24	15.32
		F	49.85	54.92	54.36	45.80	30.38	15.96
Panama /e	1952-54	M	60.41	63.31	57.87	48.98	31.88	16.76
		F	63.09	65.78	60.29	51.34	34.70	19.15
Trinidad and Tobago	1954-56	M	59.81	63.17	55.67	46.22	28.43	13.53
		F	63.13	65.81	58.15	48.79	31.62	16.51
U. S., Continental	1949-51	M	65.47	66.73	58.35	48.92	30.79	15.68
		F	70.96	71.84	63.38	53.73	35.06	18.50

Complete Expectation of Life ($\mathring{e}_x$) at Various Ages in Selected Countries (Continued)

Country	Years	Sex	Age 0	1	10	20	40	60
U. S. (continued)								
Whites /3	1956	M	67.3	68.2	59.6	50.1	31.6	15.9
		F	73.7	74.2	65.6	55.9	36.7	19.3
Nonwhites /3	1956	M	61.1	63.1	54.8	45.4	28.5	15.2
		F	65.9	67.4	59.1	49.4	31.8	17.9
South America								
Argentina	1947	M	56.9	61.7	54.7	45.6	28.2	13.8
		F	61.4	65.7	58.7	49.6	32.4	16.5
Bolivia	1949-51	M	49.71	56.11	54.79	46.99	33.40	20.39
		F	49.71	55.92	54.79	47.23	32.89	19.20
Brazil /f	1940-50	M	39.3	-	-	-	-	-
British Guiana /g	1945-47	M	49.32	53.66	47.63	38.71	23.03	11.13
		F	52.05	55.89	49.79	41.32	27.30	14.18
Chile	1952	M	49.84	56.83	51.39	42.67	27.25	13.99
		F	53.89	60.62	55.71	47.08	31.33	16.42
Venezuela /4	1941-42	M	45.83	51.24	48.19	39.92	26.21	14.00
		F	47.55	52.48	49.65	41.59	28.49	15.80
Europe								
Austria	1949-51	M	61.91	65.90	58.02	48.68	30.74	15.12
		F	66.97	70.09	62.15	52.62	34.20	17.27
Belgium	1946-49	M	62.04	65.25	57.36	48.02	30.61	15.45
		F	67.26	69.72	61.71	52.27	34.20	17.45
Denmark /5	1951-55	M	69.87	71.16	62.74	53.09	34.38	17.50
(ex. Faeroes)		F	72.60	73.35	64.78	54.99	35.89	18.44
Finland	1951-55	M	63.4	64.7	56.5	47.0	29.2	14.1
		F	69.8	70.9	62.5	52.8	34.2	16.9
France	1950-51	M	63.6	66.1	57.9	48.4	30.4	15.1
		F	69.3	71.2	63.0	53.4	35.0	18.1
Germany								
Democratic Rep.	1952-53	M	65.06	68.18	60.12	50.66	32.31	15.99
		F	69.07	71.40	63.22	53.59	34.99	17.75
Federal Rep.	1949-51	M	64.56	67.80	59.76	50.34	32.32	16.20
(ex. Saar)		F	68.48	71.01	62.84	53.24	34.67	17.46
Hungary*	1955	M	64.74	68.29	60.09	50.62	32.27	15.88
		F	68.69	71.43	63.19	53.51	34.73	17.49
Iceland	1941-50	M	66.1	67.4	59.5	50.5	34.3	18.2
		F	70.3	71.3	63.2	54.0	36.5	19.6

Complete Expectation of Life ($\mathring{e}_x$) at Various Ages in Selected Countries (Continued)

Country	Years	Sex	Age 0	1	10	20	40	60
Ireland	1950-52	M	64.53	66.88	58.81	49.31	31.31	15.40
		F	67.08	68.80	60.61	51.15	33.28	16.83
Luxembourg	1946-48	M	61.69	65.17	57.36	48.04	30.26	15.08
		F	65.75	68.59	60.78	51.51	33.43	16.87
Netherlands	1953-55	M	71.0	71.8	63.4	53.7	34.8	17.8
		F	73.9	74.3	65.7	56.0	36.7	18.9
Norway /6	1951-55	M	71.11	71.95	63.65	54.11	35.54	18.52
		F	74.70	75.21	66.72	56.96	37.79	19.93
Poland	1952-53	M	58.6	64.3	56.8	47.6	30.1	14.7
		F	64.2	69.0	61.4	52.0	34.0	17.3
Portugal	1955-56	M	58.8	63.9	57.9	48.5	30.5	14.8
		F	63.8	68.6	62.8	53.3	34.8	17.6
Spain	1950	M	58.76	63.12	56.54	47.50	36.65	15.18
		F	63.50	67.63	61.16	52.03	34.55	17.69
Sweden	1951-55	M	70.49	71.11	62.67	53.10	34.42	17.38
		F	73.43	73.71	65.12	55.36	36.22	18.61
Switzerland	1948-53	M	66.36	67.81	59.64	50.16	31.88	15.69
		F	70.85	71.06	63.55	53.86	35.02	17.77
United Kingdom								
England and Wales	1953-55	M	67.46	68.46	59.92	50.27	31.42	15.04
		F	72.86	73.52	64.93	55.15	36.08	18.67
Northern Ireland *	1951	M	65.4	-	59.1	49.5	-	-
		F	68.8	-	62.0	52.3	-	-
Scotland	1956	M	66.00	67.22	58.69	49.06	30.28	14.39
		F	71.18	71.96	63.34	53.54	34.53	17.35
U. S. S. R.	1954-55	M	61	-	-	-	-	-
		F	67	-	-	-	-	-
Asia								
Ceylon *	1954	M	60.3	64.3	60.2	51.0	33.1	16.6
		F	59.4	62.7	59.3	50.3	33.6	16.8
Cyprus	1948-50	M	63.6	67.3	60.3	50.9	32.9	16.9
		F	68.8	72.6	65.4	55.8	37.2	19.5
India /h	1941-50	M	32.45	39.00	38.97	33.03	20.53	10.13
		F	31.66	37.30	39.45	32.90	21.06	11.33
Israel (Jews)	1956	M	68.3	69.9	61.5	52.3	33.9	16.9
		F	71.1	72.7	64.2	54.5	35.4	18.1

Complete Expectation of Life ($\mathring{e}_x$) at Various Ages in Selected Countries (Continued)

Country	Years	Sex	Age 0	1	10	20	40	60
Japan /i	1955	M	63.88	65.64	58.19	48.77	31.15	15.33
		F	68.41	69.99	62.47	52.95	35.11	18.59
Philippines	1946-49	M	48.81	54.74	54.64	45.98	31.14	17.72
		F	53.36	58.62	56.22	47.27	32.26	18.45
Thailand	1947-48	M	48.69	52.00	47.87	39.81	25.56	12.69
		F	51.90	55.20	50.90	42.71	28.43	14.20
Africa								
Belgian Congo								
African population /j	1950-52	M	37.64	42.45	41.40	34.41	21.48	10.63
		F	40.00	44.14	43.23	36.29	23.33	12.27
Mauritius (ex. dep.)	1951-53	M	49.79	54.71	49.23	40.11	23.58	11.18
		F	52.29	56.74	52.22	43.67	28.75	14.59
Réunion	1951-55	M	47.50	53.80	49.80	40.80	25.10	12.40
		F	53.40	59.30	56.10	47.10	31.40	16.90
Union of South Africa								
Asiatics	1945-47	M	50.70	54.29	48.78	40.22	24.82	11.97
		F	49.75	52.82	47.47	39.30	24.78	11.96
Coloureds	1945-47	M	41.70	47.81	44.92	36.83	23.97	13.16
		F	44.00	49.53	47.01	39.42	27.26	14.97
Europeans	1945-47	M	63.78	65.51	57.71	48.35	30.38	15.34
		F	68.31	69.63	61.73	52.27	34.07	18.04
Oceania								
Australia /k	1946-48	M	66.07	67.25	59.04	49.64	31.23	15.36
		F	70.63	71.45	63.11	53.47	34.91	18.11
New Zealand								
Europeans	1950-52	M	68.29	69.03	60.60	51.15	32.65	16.19
		F	72.43	72.90	64.37	54.64	35.64	18.53
Maoris	1950-52	M	54.05	57.69	50.99	42.21	26.41	12.81
		F	55.88	59.08	52.05	43.29	27.00	14.41

* Provisional.

a/ Values for ages 0 and 1 derived from mortality rates estimated on the basis of data for Trinidad and Tobago.

b/ Values for age 1 derived from mortality rates computed on population assumed to have same age distribution as Jamaica, 1946.

c/ Guadeloupe and Martinique. Similarity in mortality and advantages of greater stability in larger numbers led to decision to compile life table on combined experience.

d/ Values derived from mortality rates based on apparent survivorship rates between census of 1950 and a population for 1951 which was estimated on basis of an assumed rate of growth.

e/ Excluding tribal Indians and Canal Zone.

f/ Data are for population born in Brazil and are derived from mortality rates based

on apparent survivorship rates between censuses.

g/ Excluding Amerindians.

h/ Values derived from mortality rates based on apparent survivorship rates between censuses except values for ages under 5 and for 60 which are estimated. States of Uttar Pradesh, Bihar, Orissa, Assam, Manipur, Madras, Mysore, Travancore-Cochin, Coorg, Bombay, Saurashtra, Kutch, Madhya Pradesh, Madhya Bharat, Hyderabad, Bhopal, and Vinhya Pradesh.

i/ Japanese nationals only.

j/ Obtained from sample surveys of approximately 3.6 per cent of total population.

k/ Excluding full-blooded aborigines.

Sources

1/ Unless otherwise noted, figures were taken from: United Nations Statistical Office. Demographic Yearbook, 1957. Table 24.

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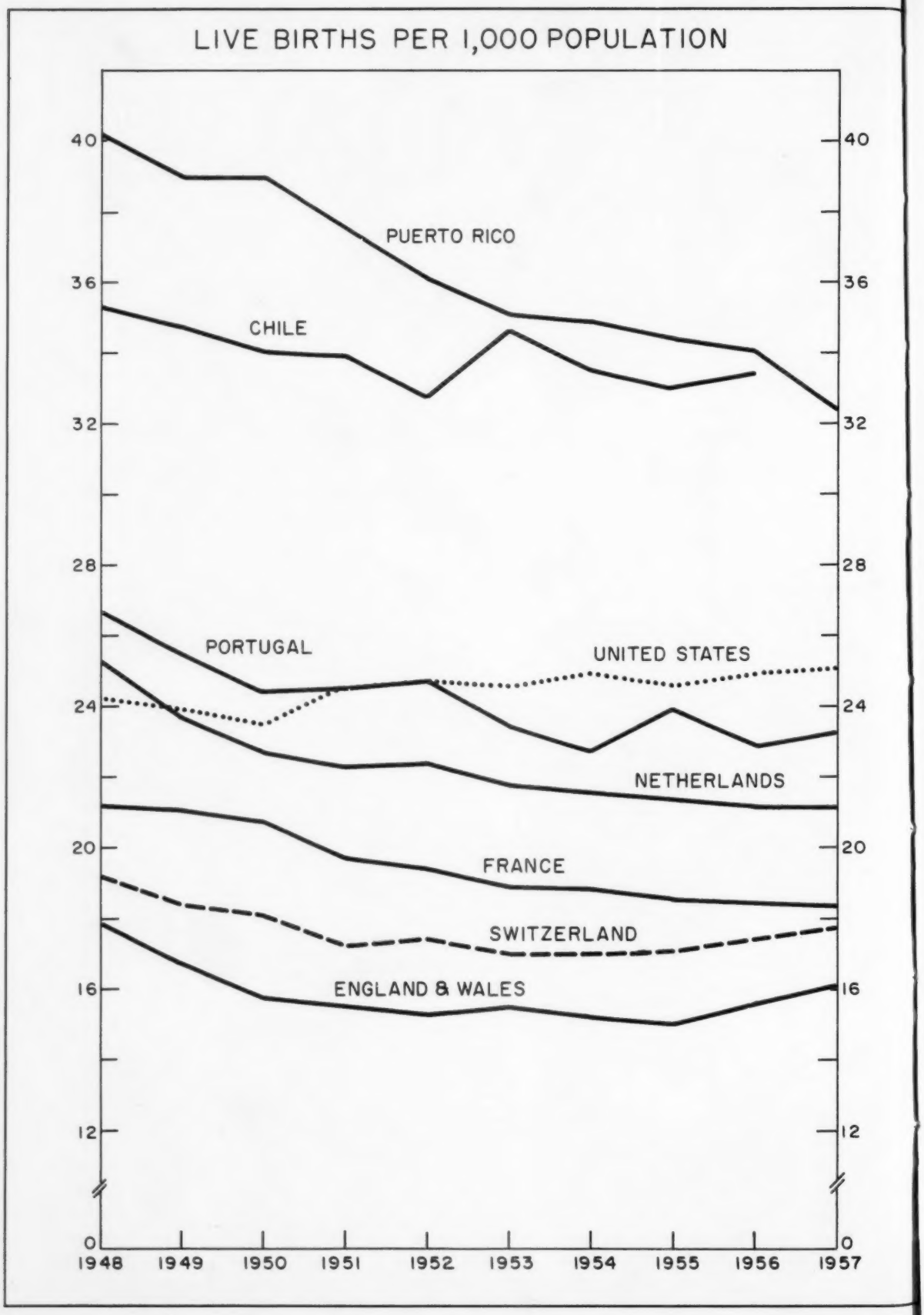
LIVE BIRTHS PER 1,000 POPULATION
PUERTO RICO
CHILE
PORTUGAL
UNITED STATES
NETHERLANDS
FRANCE
SWITZERLAND
ENGLAND & WALES
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36
32
28
24
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1948
1949
1950
1951
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